IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1044.32
NORTHING -3228.93

BORING NO. SGA-TB058
G.S. ELEV. 632.31
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.1			Brown-yellow, gravelly CLAY, little sand and silt, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1084.34
NORTHING -3224.90

BORING NO. SGA-TB057
G.S. ELEV. 630.67
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.6			Brown-yellow, silty CLAY, little f sand, trace gravel, stiff, moist			
					Bottom of boring 4 ft			
5								5
								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1138.82
NORTHING -3213.94

BORING NO. SGA-TB056
G.S. ELEV. 630.45
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		2.7			Brown-yellow, silty CLAY, little f sand, trace gravel, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1152.96
NORTHING -3184.31

BORING NO. SGA-TB055
G.S. ELEV. 630.56
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0		1.7			Brown, silty CLAY, little f sand, trace gravel, stiff, moist			0
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1155.80
NORTHING -3144.32

BORING NO. SGA-TB054
G.S. ELEV. 630.16
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		2.1			Brown, sandy SILT, little clay, trace gravel, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1159.55
NORTHING -3022.31

BORING NO. SGA-TB051
G.S. ELEV. 630.95
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, silty CLAY, little sand, trace gravel, stiff, moist			
		2.7			Dk. brown, silty CLAY, trace f sand and gravel, stiff, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1161.34
NORTHING -2983.35

BORING NO. SGA-TB050
G.S. ELEV. 633.20
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		2.5			Brown, clayey GRAVEL, little silt and sand, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1167.08
NORTHING -2942.18

BORING NO. SGA-TB049
G.S. ELEV. 636.08
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0		3.3			Brown, clayey GRAVEL, little silt and sand, dense, moist			0
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1169.29
NORTHING -2902.56

BORING NO. SGA-TB048
G.S. ELEV. 641.34
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.5			Brown, clayey GRAVEL, little silt and sand, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1134.13
NORTHING -2885.61

BORING NO. SGA-TB047
G.S. ELEV. 641.95
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0		2.7			Brown, clayey GRAVEL, little silt and sand, dense, moist			0
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1094.38
NORTHING -2871.63

BORING NO. SGA-TB046
G.S. ELEV. 641.63
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4.0			Brown-yellow, clayey GRAVEL, little silt and sand, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1055.73
NORTHING -2864.10

BORING NO. SGA-TB045
G.S. ELEV. 641.12
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0		3.6			Brown-yellow, clayey GRAVEL, little silt and sand, dense, moist			0
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1019.02
NORTHING -2854.54

BORING NO. SGA-TB044
G.S. ELEV. 641.13
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X				Bottom of boring 12 ft			
15								15
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1019.02
NORTHING -2854.54

BORING NO. SGA-TB044
G.S. ELEV. 641.13
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
					Brown-yellow, silty SAND, little clay and gravel, dense, moist			
		2.8			IRON OXIDE, trace plastic, v. loose, moist			
5					Red-brown, silty CLAY, little sand, trace gravel, soft, moist			5
		2.1						
					Brown-yellow, silty SAND, little clay and gravel, dense, moist			
10		2.9						10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 989.52
NORTHING -2879.93

BORING NO. SGA-TB043
G.S. ELEV. 638.19
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		2.4			Brown, silty GRAVEL, some clay, trace sand, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 964.41
NORTHING -2907.99

BORING NO. SGA-TB042
G.S. ELEV. 632.81
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.1			Brown, silty SAND, some clay, dense, moist			
					Brown to red-brown, clayey SILT, little gravel, trace f sand, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 924.50
NORTHING -2912.50

BORING NO. SGA-TB041
G.S. ELEV. 632.81
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.8			Brown, silty SAND, little clay and gravel, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 884.72
NORTHING -2910.28

BORING NO. SGA-TB040
G.S. ELEV. 633.58
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		1.5			Dk. brown, silty SAND, trace gravel, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 845.64
NORTHING -2913.79

BORING NO. SGA-TB039
G.S. ELEV. 634.27
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4.0			Crushed LIMESTONE Brown to brown-yellow, clayey SAND, little gravel, trace silt, dense, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 807.35
NORTHING -2911.39

BORING NO. SGA-TB038
G.S. ELEV. 635.23
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		4.0			Brown-yellow, silty SAND, little clay and gravel, dense, moist			
					Dk. gray, silty SAND, trace clay, dense, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 768.39
NORTHING -2907.67

BORING NO. SGA-TB037
G.S. ELEV. 635.98
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		2.2			Crushed LIMESTONE Brown, clayey SILT, some sand, little gravel, dense, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 728.94
NORTHING -2905.22

BORING NO. SGA-TB36A
G.S. ELEV. 636.87
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		4.0			Brown, silty SAND, little clay, trace gravel, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 729.94
NORTHING -2928.59

BORING NO. SGA-TB036
G.S. ELEV. 637.16
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE with silty Sand, trace clay, polycarbonate, yellow plant residue			
		3.6			Brown, silty SAND, trace clay, polycarbonate pieces			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 671.18
NORTHING -2925.35

BORING NO. SGA-TB35C
G.S. ELEV. 638.83
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE with silty Sand, trace clay			
					Brown to dk. brown, silty SAND, little gravel, trace clay, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 690.92
NORTHING -2902.64

BORING NO. SGA-TB35B
G.S. ELEV. 639.20
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE with silty Sand, trace clay			
		3.2			Brown to dk. brown, silty SAND, little gravel, trace clay, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 697.32
NORTHING -2919.68

BORING NO. SGA-TB35A
G.S. ELEV. 638.51
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE with silty Sand, dense, moist			
		4.0			Crushed LIMESTONE with silty Sand, trace clay, polycarbonate pieces, polyurethane strands, dense, moist			
					Brown, gravelly SAND, little silt, trace clay, black polycarbonate, dense, moist			
					Bottom of boring 4 ft			
5								5
0								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 702.03
NORTHING -2936.85

BORING NO. SGA-TB035
G.S. ELEV. 638.46
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4.0			Crushed LIMESTONE with silty Sand, trace clay, dense, moist			
					Red-brown to lt. yellow, Plant Residue			
					Brown-yellow to pink, ASH, Polycarbonate Strands, Plant Residue, little silty sand, piece metal, v. loose, moist			
					Brown, silty SAND, trace black and white ash, crushed limestone, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 673.40
NORTHING -2966.96

BORING NO. SGA-TB34A
G.S. ELEV. 639.12
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE with silty Sand, trace clay, dense, moist			
		4.0			Brown to dk. brown, silty SAND, trace clay, gravel, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 683.17
NORTHING -2970.99

BORING NO. SGA-TB034
G.S. ELEV. 639.83
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE with silty Sand, trace clay, dense, moist			
		4.0			Crushed LIMESTONE with red-brown, silty Sand, trace iron oxide, black polycarbonate, loose, moist			
					Brown, clayey SILT, little sand and gravel, stiff, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE	BORING NO. SGA-TB033
BORING LOCATION: SWMU Group A	DURING DRILLING (ft-bgs) N/A	G.S. ELEV. 639.50
DRILLING FIRM: Microseeps	WELL LEVEL N/A	CASING ELEV. N/A
DRILLING METHOD: Geoprobe	EASTING 678.38	START DATE 11/17/99
LOGGED BY: G. Werkman	NORTHING -3009.50	FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X	4.0			Crushed LIMESTONE with silty Sand, trace clay, dense, moist			
					Brown, brown-yellow to dk. brown, silty SAND, little gravel, trace clay, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

Sheet 1 of 1

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 674.21
NORTHING -3047.88

BORING NO. SGA-TB032
G.S. ELEV. 639.15
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4.0			Crushed LIMESTONE with silty Sand, trace clay, dense, moist			
					Brown to dk. brown, silty SAND, trace gravel and clay, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 672.58
NORTHING -3086.23

BORING NO. SGA-TB031
G.S. ELEV. 638.85
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE with silty Sand, trace clay, dense, moist			
		3.2			Brown-yellow to dk. brown, silty SAND, trace gravel and clay, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 672.91
NORTHING -3125.26

BORING NO. SGA-TB030
G.S. ELEV. 638.39
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.8			Crushed LIMESTONE with silty Sand, trace clay, dense, moist			
					Dk. brown to brown, silty SAND, little gravel, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 676.41
NORTHING -3164.05

BORING NO. SGA-TB029
G.S. ELEV. 637.92
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE with silty Sand, trace clay, dense, moist			
		3.8			Brown to brown-yellow, clayey SILT, little sand and f gravel, dense, moist			
					Dk. brown, silty SAND, trace gravel, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 682.32
NORTHING -3203.29

BORING NO. SGA-TB028
G.S. ELEV. 637.16
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE with silty Sand, trace clay, dense			
		3.5			Brown, silty SAND, little clay and gravel, dense, moist			
					Black ASH, v. loose, moist			
					Dk. brown, silty SAND, trace f gravel, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 690.92
NORTHING -3240.74

BORING NO. SGA-TB027
G.S. ELEV. 636.59
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.5			Crushed LIMESTONE with silty Sand, dense			
					Brown, silty SAND, trace f gravel, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 670.47
NORTHING -3282.94

BORING NO. SGA-TB26B
G.S. ELEV. 634.68
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, organic matter			
					Brown-yellow, silty CLAY, trace f sand, med. plasticity, moist			
					Bottom of boring 3.4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 687.30
NORTHING -3279.69

BORING NO. SGA-TB26A
G.S. ELEV. 635.07
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					V. dk. brown, silty SAND sod, organic matter			
					CONCRETE with reinforcing mesh			
		3.0			Brown, silty SAND, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 700.03
NORTHING -3278.06

BORING NO. SGA-TB026
G.S. ELEV. 635.93
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
					Brown, silty SAND, little clay and crushed stone, dense, moist			
		3.8			Crushed LIMESTONE, some orange polyurethane strands, v. loose, moist			
					Brown, silty SAND, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 682.00 est.
NORTHING -3322.00 est.

BORING NO. SGA-TB25B
G.S. ELEV. Not meas.
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, organic matter, humus			
					Dk. brown, silty SAND, little clay, dense, moist			
					Brown-yellow, silty f SAND			
					Bottom of boring 4 ft			
5								5
0								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 695.00 est.
NORTHING -3319.00 est.

BORING NO. SGA-TB25A
G.S. ELEV. Not meas.
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, organic matter, humus			
					Dk. brown, silty SAND, little clay, dense, moist			
					Brown-yellow, silty f SAND, trace polyurethane			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 712.12
NORTHING -3320.66

BORING NO. SGA-TB025
G.S. ELEV. 635.32
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.0			Crushed LIMESTONE			
					Crushed LIMESTONE with silty Sand, trace clay			
					Brown to brown-yellow, silty SAND, little clay and gravel, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 670.19
NORTHING -3372.25

BORING NO. SGA-TB24C
G.S. ELEV. 629.05
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, organic matter, humus			
					Bottom of boring 1.2 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 675.68
NORTHING -3370.43

BORING NO. SGA-TB24B
G.S. ELEV. 629.28
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, organic matter, humus			
					V. dk. gray, silty CLAY, med. plasticity, soft, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 689.82
NORTHING -3368.33

BORING NO. SGA-TB24A
G.S. ELEV. 633.04
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, silty SAND, little gravel, trace clay			
		2.8			Brown, silty SAND, little clay, gravel, dense, moist			
					Bright red to brown, silty SAND, little gravel, trace clay, polycarbonate pieces, loose, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 721.34
NORTHING -3358.71

BORING NO. SGA-TB024
G.S. ELEV. 635.69
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		3.3			Brown to gray, clayey GRAVEL, little sand, trace silt			
					Brown, silty CLAY, some clear polyurethane strands			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 676.92
NORTHING -3405.36

BORING NO. SGA-TB23C
G.S. ELEV. 627.76
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, organic matter, humus			
					V. dk. gray, silty CLAY, high plasticity, soft, moist			
					Brown-yellow, silty CLAY, med. plasticity, soft, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 691.32
NORTHING -3403.23

BORING NO. SGA-TB23B
G.S. ELEV. 632.60
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, silty SAND, organic matter, crushed limestone, loose, moist			
					Black to lt. gray-white, f-m SAND, v. loose, wet			
		1.7			Crushed LIMESTONE, trace white plant residue			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 715.45
NORTHING -3399.35

BORING NO. SGA-TB23A
G.S. ELEV. 634.14
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
					Brown, sandy SILT, some gravel, trace red polyurethane strands			
		2.2			Brown to v. dark gray, clayey GRAVEL, little sand, trace silt, clear and red polyurethane strands, loose, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 732.89
NORTHING -3396.85

BORING NO. SGA-TB023
G.S. ELEV. 636.41
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		4.0			Brown to gray, shaly CLAY, little silt, trace gravel			
					Crushed LIMESTONE			
					Crushed LIMESTONE, trace white plant residue			
					Dk. gray, gravelly SAND, little silt, gravel, trace polyurethane, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 675.56
NORTHING -3443.90

BORING NO. SGA-TB22A
G.S. ELEV. 627.39
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, organic matter, humus			
					V. dk. gray, silty CLAY, high plasticity, soft, moist			
					Brown-yellow, silty CLAY, med. plasticity, soft, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 742.96
NORTHING -3435.02

BORING NO. SGA-TB022
G.S. ELEV. 636.76
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0		2.2			Crushed LIMESTONE Brown-yellow, ASH, trace polycarbonate pieces, v. loose, moist Black, ASH, some polycarbonate strands, trace gravel, v. loose Bottom of boring 4 ft			0
5								5
								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 671.88
NORTHING -3491.35

BORING NO. SGA-TB21D
G.S. ELEV. 626.88
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, organic matter, humus			
					V. dk. gray, silty CLAY, high plasticity, soft, moist			
					Brown-yellow, silty CLAY, med. plasticity, soft, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION — BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE	BORING NO. SGA-TB21C
BORING LOCATION SWMU Group A	DURING DRILLING (ft-bgs) N/A	G.S. ELEV. 629.07
DRILLING FIRM Microseeps	WELL LEVEL N/A	CASING ELEV. N/A
DRILLING METHOD Geoprobe	EASTING 686.12	START DATE 11/17/99
LOGGED BY G. Werkman	NORTHING -3492.32	FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X				Brown, sandy CLAY, trace organic matter, gravel, silt			
					Brown, sandy CLAY, trace gravel, silt, stiff, moist			
		2.8			Crushed LIMESTONE			
					Iron oxide stained PLANT RESIDUE and copper piece, loose, moist			
					Brown, f sandy SILT, trace organic matter, loose, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 723.24
NORTHING -3476.34

BORING NO. SGA-TB21B
G.S. ELEV. 631.87
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		1.2			Brown, silty SAND, v. loose, moist			
5					Bottom of boring 4 ft			5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 734.36
NORTHING -3475.08

BORING NO. SGA-TB21A
G.S. ELEV. 633.82
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		2.1			Brown to black, sandy CLAY, little polycarbonate pieces, soft, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 752.05
NORTHING -3472.40

BORING NO. SGA-TB021
G.S. ELEV. 636.88
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		2.8			IRON OXIDE, trace black polycarbonate, strings of polyurethane, plastic, v. loose, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 670.14
NORTHING -3516.69

BORING NO. SGA-TB20C
G.S. ELEV. 627.97
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, silty CLAY, trace sand and gravel, low plasticity, moist			
					Brown-yellow, silty clay, low plasticity, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 722.05
NORTHING -3514.16

BORING NO. SGA-TB20B
G.S. ELEV. 630.03
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		1.8			Brown, sandy SILT, organic matter, loose, moist			
					Brown, sandy SILT, little clay, trace slag, gravel, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION — BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV	WATER LEVELS RELATIVE TO G.SURFACE	BORING NO. SGA-TB20A
BORING LOCATION SWMU Group A	DURING DRILLING (ft-bgs) N/A	G.S. ELEV. 636.00
DRILLING FIRM Microseeps	WELL LEVEL N/A	CASING ELEV. N/A
DRILLING METHOD Geoprobe		START DATE 11/17/99
LOGGED BY G. Werkman	EASTING 747.62 NORTHING -3511.08	FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown-yellow, sandy CLAY, little silt and gravel, stiff, moist			
		2.0			Black, POLYCARBONATE pieces with Paper, Plant Residue, v. loose, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 758.04
NORTHING -3510.63

BORING NO. SGA-TB020
G.S. ELEV. 637.02
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		2.9			Brown-yellow, sandy CLAY, little gravel, med. stiff, moist			
					White, Plant Residue, crystalline, v. loose, moist			
					Black, ASH, little polycarbonate, v. loose, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 764.30
NORTHING -3548.92

BORING NO. SGA-TB019
G.S. ELEV. 636.72
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, sandy SILT, organic matter, loose, moist			
					White and gray ASH, trace crushed limestone, slag, v. loose, moist			
		2.1			Black, white, gray ASH, trace polycarbonate pieces, v. loose, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 755.01
NORTHING -3608.03

BORING NO. SGA-TB18B
G.S. ELEV. 624.80
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. yellow-brown, silty CLAY, plastic			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 759.20
NORTHING -3604.71

BORING NO. SGA-TB18A
G.S. ELEV. 628.96
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, silty CLAY, med. plasticity, soft, moist			
					White PLASTIC			
					Bottom of boring 1.8 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 780.41
NORTHING -3587.53

BORING NO. SGA-TB018
G.S. ELEV. 636.74
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		1.4			Brown, sandy SILT, organic matter, v. loose, moist			
					White and gray ASH, v. loose, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 807.58
NORTHING -3634.02

BORING NO. SGA-TB17B
G.S. ELEV. 629.67
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		NA			VISUAL OBSERVATIONS: Waste at water's edge, drum with TDI residue, polyurethane strands protruding from bank			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 808.84
NORTHING -3614.51

BORING NO. SGA-TB17A
G.S. ELEV. 636.41
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		1.3			Brown, sandy SILT, organic matter, loose, moist			
					White and gray ASH, polycarbonate pieces, v. loose, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 814.64
NORTHING -3608.92

BORING NO. SGA-TB017
G.S. ELEV. 636.73
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		3.2			White and gray ASH, little silt, trace TDI Residue, slag, v. loose			
					WOOD PIECES and black ASH			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 837.26
NORTHING -3653.12

BORING NO. SGA-TB16A
G.S. ELEV. 628.90
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		NA			VISUAL OBSERVATIONS: Red polyurethane strands protruding from bank			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 845.90
NORTHING -3632.80

BORING NO. SGA-TB016
G.S. ELEV. 635.88
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		2.4			Brown to lt. gray, sandy GRAVEL, little silt, trace clay, red brick pieces, loose, moist			
					White and gray ASH, v. loose, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 867.10
NORTHING -3670.88

BORING NO. SGA-TB15A
G.S. ELEV. 627.93
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. yellow-brown, silty CLAY			
					Black, POLYURETHANE BEADS			
					Bottom of boring 3 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 881.64
NORTHING -3646.18

BORING NO. SGA-TB015
G.S. ELEV. 635.64
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
					Dk. brown, gravelly CLAY, little sand, trace silt, soft, moist			
		3.1			White and gray ASH, trace black polycarbonate pieces, v. loose			
					IRON OXIDE, trace TDI Residue, v. loose			
					Red-brown, silty CLAY, trace sand, soft, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 903.44
NORTHING -3685.29

BORING NO. SGA-TB14B
G.S. ELEV. 629.49
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. yellow-brown, silty CLAY with black Polycarbonate			
					Bottom of boring 3 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 912.37
NORTHING -3666.59

BORING NO. SGA-TB14A
G.S. ELEV. 634.37
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, silty SAND, little gravel, trace organic matter, dense, moist			
					V. dk. brown sandy GRAVEL, little silt, loose, moist			
					White and gray, ASH			
		2.2			Brown, silty SAND, some gravel, trace silt, dense, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 917.22
NORTHING -3659.37

BORING NO. SGA-TB014
G.S. ELEV. 635.10
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		2.6			White and gray ASH, trace black polycarbonate pieces and slag, v. loose			
					IRON OXIDE, trace ceramic pieces, v. loose			
					Brown, silty CLAY, trace gravel and sand, soft, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 949.00 est.
NORTHING -3723.00 est.

BORING NO. SGA-TB13C
G.S. ELEV. 629.50 est.
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, silty CLAY, moist			
					LIMESTONE gravel			
					Black, organic SILT			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 949.56
NORTHING -3703.20

BORING NO. SGA-TB13B
G.S. ELEV. 629.57
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, silty SAND, some gravel, trace silt, organic matter, TDI Residue, polycarbonate, dense, moist			
		3.1			Brown-yellow, silty CLAY, little sand and gravel, trace polycarbonate, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 947.87
NORTHING -3680.04

BORING NO. SGA-TB13A
G.S. ELEV. 633.57
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, silty CLAY, little sand, trace gravel, soft, wet			
		2.4			Black to lt. brown ASH, little silty sand, trace clay, polyurethane strands, loose, wet			
					Bottom of boring 4 ft			
5								5
0								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 955.42
NORTHING -3666.57

BORING NO. SGA-TB013
G.S. ELEV. 634.11
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		1.6			Crushed LIMESTONE White and gray ASH, trace black polycarbonate pieces, v. loose Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1016.80
NORTHING -3720.73

BORING NO. SGA-TB12B
G.S. ELEV. 628.49
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. yellow-brown, silty CLAY, trace f sand, gravel, stiff, moist			
					Bottom of boring 3 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1002.83
NORTHING -3693.06

BORING NO. SGA-TB12A
G.S. ELEV. 631.57
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. yellow-brown, silty CLAY, trace f sand, gravel, plant residue, stiff, moist			
					Bottom of boring 3 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 994.04
NORTHING -3667.22

BORING NO. SGA-TB012
G.S. ELEV. 633.45
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X	0.6			Crushed LIMESTONE			
					White and gray ASH, v. loose			
					Refusal; bottom of boring 1.3 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM
DRILLING METHOD Hand Auger
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1038.23
NORTHING -3664.90

BORING NO. SGA-TB11C
G.S. ELEV. 629.08
CASING ELEV. N/A
START DATE 11/18/99
FINISH DATE 11/18/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. yellow-brown, silty CLAY, little f sand, trace gravel, TDI residue, polycarbonate			
					Bottom of boring 3 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1026.63
NORTHING -3659.39

BORING NO. SGA-TB11B
G.S. ELEV. 630.99
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, silty SAND, organic matter			
					Brown-yellow, clayey SILT, little sand, trace gravel, stiff, moist			
		1.0			White and gray, ASH with silty Sand, dense, moist			
					Brown-yellow, clayey SILT, little sand, trace gravel, stiff, moist			
					Brown, silty CLAY, trace sand, gravel, high plasticity, soft, wet			
5					V. dk. brown, ASH			5
		1.5			Brown to red-brown, silty CLAY, soft, wet			
					Brown, silty CLAY, little sand, trace gravel, wood, polyurethane strands, soft, wet			
					Bottom of boring 8 ft			
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1030.61
NORTHING -3646.08

BORING NO. SGA-TB11A
G.S. ELEV. 630.56
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		1.5			Brown, silty SAND, little clay, organic matter, trace gravel, dense, moist			
					White and gray ASH			
					WOOD, railroad tie			
					Bottom of boring 1.5 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1003.67
NORTHING -3629.88

BORING NO. SGA-TB011
G.S. ELEV. 634.30
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
					White and gray ASH, v. loose			
		1.6			IRON OXIDE, v. loose			
					White and gray ASH, v. loose			
5					Bottom of boring 4 ft			5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1019.01
NORTHING -3593.28

BORING NO. SGA-TB010
G.S. ELEV. 634.61
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
					Brown-yellow, gravelly CLAY, little sand, trace silt and slag, stiff, moist			
					Black ASH, trace silt and clay, loose, moist			
		3.6			Brown to brown-yellow, gravelly CLAY, little sand, trace silt, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1031.89
NORTHING -3556.77

BORING NO. SGA-TB009
G.S. ELEV. 635.09
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0		3.7			Crushed LIMESTONE Brown to brown-yellow, gravelly CLAY, little sand, trace silt, stiff, moist Bottom of boring 4 ft			0
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1042.86
NORTHING -3519.30

BORING NO. SGA-TB008
G.S. ELEV. 635.38
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		3.2			Brown to brown-yellow, gravelly CLAY, little sand, trace silt, wood pieces, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1048.24
NORTHING -3481.11

BORING NO. SGA-TB007
G.S. ELEV. 635.36
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0		2.8			Crushed LIMESTONE Brown, gravelly CLAY, little sand, trace silt, stiff, moist Bottom of boring 4 ft			0
5								5
								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1050.03
NORTHING -3442.22

BORING NO. SGA-TB006
G.S. ELEV. 635.76
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.0			Crushed LIMESTONE Brown, gravelly CLAY, little sand, trace silt, stiff, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1052.17
NORTHING -3402.96

BORING NO. SGA-TB005
G.S. ELEV. 635.99
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		2.7			Brown, gravelly CLAY, little sand, trace silt, stiff, moist			
					Bottom of boring 4 ft			
5								5
0								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1050.16
NORTHING -3364.49

BORING NO. SGA-TB004
G.S. ELEV. 636.34
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		2.9			Brown, gravelly CLAY, little sand, trace silt, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1044.13
NORTHING -3326.73

BORING NO. SGA-TB003
G.S. ELEV. 636.32
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		2.7			Brown, sandy CLAY, little gravel, trace silt, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1028.98
NORTHING -3289.39

BORING NO. SGA-TB002
G.S. ELEV. 636.91
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		3.1			Brown, gravelly CLAY, little sand, trace silt, stiff, moist			
					Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU Group A
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1014.44
NORTHING -3253.51

BORING NO. SGA-TB001
G.S. ELEV. 636.94
CASING ELEV. N/A
START DATE 11/17/99
FINISH DATE 11/17/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3			Crushed LIMESTONE Brown, sandy CLAY, little gravel, crushed limestone, trace silt, stiff, moist Bottom of boring 4 ft			
5								5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 030
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 2155.61
NORTHING -2133.81

BORING NO. SM030-TB05
G.S. ELEV. 653.61
CASING ELEV. N/A
START DATE 11/15/99
FINISH DATE 11/15/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
			SM030TB05-0001		Brown to brown-yellow to dk. gray, weathered SHALE, GRAVEL, shaley SILT, little sand, trace clay, dense, moist			
		3.8		0				
			SM030TB05-0204					
					Dk. brown, TDI RESIDUE, v. loose, moist			
					As above, wet		Water at 4 ft	
5								5
		1.8		0				
					Bottom of boring 8 ft			
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 030
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 2148.99
NORTHING -2197.19

BORING NO. SM030-TB04
G.S. ELEV. 653.02
CASING ELEV. N/A
START DATE 11/15/99
FINISH DATE 11/15/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					As above			
		4		0				
15			SM030TB04-1416					15
					As above, moist grading to wet		Water at 16 ft	
		4		0				
					Brown, gray mottles, f-m sandy SILT, trace clay, loose, wet			
20					Bottom of boring 20 ft			20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 030
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 2148.99
NORTHING -2197.19

BORING NO. SM030-TB04
G.S. ELEV. 653.02
CASING ELEV. N/A
START DATE 11/15/99
FINISH DATE 11/15/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM030TB04-0001		Crushed LIMESTONE			
		3.2		0	Brown to brown-yellow to dk. gray, weathered SHALE, GRAVEL, shaley SILT, little sand, trace clay, dense, moist			
			SM030TB04-0305		Dk. brown, TDI RESIDUE, v. loose, dry			
5					Dk. brown, clayey, f SAND, little silt, trace gravel, dense, moist			5
		2.9		0				
					Red-brown to brown-yellow, clayey, f-m SAND, little silt, trace gravel, dense, moist			
10		4		0				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 030
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 9.0
WELL LEVEL (ft-msl) NA

NORTHING -2240.97529
EASTING 2351.22144

BORING SM030-TB03
G.S. ELEV. 655.124
CASING ELEV. NA
START DATE 7/17/97
FINISH DATE 7/17/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM030TB03-0001	Light brown, fine to coarse sandy SILT, little shale fragments, trace gravel, dry (ML)			1
2									2
3			1-3	0		Brown, shaley CLAY, little silt and fine to coarse sand, damp (CL)			3
4					SM030TB03-0305				4
5			3-5	0					5
6									6
7									7
8					SM030TB03-0709				8
9		43		0				Water at 9 ft-bgs.	9
10						Refusal, SANDSTONE bedrock			10
11		40				Bottom of boring 11 ft-bgs			11

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 030
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY B. Squire

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A

NORTHING 2202.02889
EASTING -2204.99483

BORING SM030-TB02
G.S. ELEV. 653.134
CASING ELEV. N/A
START DATE 10/22/96
FINISH DATE 10/22/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1–5						Brown clay, sand, gravel, rock fragments, slag, med. stiff to loose, nonplastic, damp, (fill)		Boring continuously drilled from surface to 19 ft.	1–5
5–19						TDI residue (brown–black, glassy granular material to 3/8"), (fill)			5–19
19–20			5 4 6			As above, med. stiff, wet to saturated			19–20
21		75	4	0		As above, med. stiff to loose			21
22			6 7		SM030TB02-2123				22
23		100	17 50/4	0		Gray silt and siltstone, soft, damp		Sample taken in siltstone.	23
24						Bottom of boring 23 ft			24

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 030
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY B. Squire

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A
NORTHING 2207.36834
EASTING -2256.20295

BORING SM030-TB01
G.S. ELEV. 652.969
CASING ELEV. N/A
START DATE 10/22/96
FINISH DATE 10/22/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			16 13 10		SM030TB01-0000	Brown clay, sand, gravel, rock fragments, slag, med. stiff to loose, nonplastic, damp, (fill)			1
2			11	0					2
3									3
4			13 11 6		SM030TB01-0305				4
5		75	6	0		TDI residue (brown-black, glassy granular material to 3/8"), med. dense, wet, (fill)			5
6			5 4 3						6
7		50	3	0		As above, wet to saturated			7
8			3 3 5			As above, saturated			8
9		100	3	0					9
10			4 3 2			As above, few well rounded gravel			10
11		50	1	0					11
12			2 1 2						12
13		75	4	0					13
14			8 7 7						14
15		100	8	0					15
16			14 13 13						16
17		100	15	0		As above			17
18			8 7 6						18
19		100	6	0					19
20			16 33		SM030TB01-1921			Sample taken in siltstone.	20
21		100	52	0		Yellow-brown-gray siltstone, dry			21
22						Bottom of boring 21 ft			22

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 029
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 17.0
WELL LEVEL (ft-msl) NA

NORTHING 925.10570
EASTING 763.91530

BORING SM029-TB02
G.S. ELEV. 640.056
CASING ELEV. NA
START DATE 7/15/97
FINISH DATE 7/15/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM029TB02-0001	Asphalt pavement			0
1			0-1			Brown, fine to coarse SAND with fine gravel, few crushed stone, trace clay, damp (fill)			1
2									2
3			1-3	0		Light brown, fine to medium sandy SILT, trace fine, subrounded gravel, trace clay, damp (ML-SM)			3
4					SM029TB02-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		45		0					9
10									10
11						Brown and gray, SILT and CLAY, few fine sand, trace fine gravel, damp (ML-CL)			11
12									12
13		100		0		Brown, fine to medium sandy SILT, few clay, damp (ML)			13
14						Brown, fine to medium SAND, few silt, moist (SP)			14
15									15
16					SM029TB02-1517				16
17		100		0				Water at 17 ft.	17
18									18
19									19
20									20
21		30		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 029
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 14.8
WELL LEVEL (ft-msl) NA

NORTHING 910.42884
EASTING 949.39201

BORING SM029-TB01
G.S. ELEV. 639.518
CASING ELEV. NA
START DATE 7/15/97
FINISH DATE 7/15/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM029TB01-0001	Asphalt pavement			0
1			0-1			Dark brown, fine to coarse SAND with fine to coarse, subrounded to subangular gravel, few silt, very moist (fill)			1
2									2
3			1-3	0		Yellow-brown, fine to coarse sandy CLAY, little fine to medium gravel, few silt, wet (CL)			3
4					SM029TB01-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		26		0		Gray and brown silty CLAY, few sand, moist (CL-ML)			9
10									10
11									11
12									12
13		55		0				SM29TB01-1214 collected from 12.8 to 14.8 ft.	13
14					SM029TB01-1214				14
15						Brown, fine to medium SAND, few silt, wet (SP)		Water at 14.8 ft.	15
16									16
17		63		0					17
18									18
19									19
20									20
21		85		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 028
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 18.3
WELL LEVEL (ft-msl) NA

NORTHING 474.49830
EASTING 966.36133

BORING SM028-TB02
G.S. ELEV. 639.359
CASING ELEV. NA
START DATE 7/14/97
FINISH DATE 7/14/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM028TB02-0001	Gray, crushed stone aggregate (fill)			
1			0-1			Gray, shaley CLAY, little gravel, few fine to coarse sand, damp (CL)			1
2									2
3			1-3	0					3
4					SM028TB02-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		70		0		Dark gray, silty, fine to coarse SAND, trace clay, damp (SM)			9
10									10
11						Dark brown, clayey, fine to coarse SAND, few silt, trace fine gravel, damp (SC)			11
12									12
13		80		0					13
14									14
15						Brown, fine to medium SAND, few silt, damp (SP)			15
16									16
17		100		0	SM028TB02-1618				17
18								Water at 18.3 ft.	18
19									19
20									20
21		80				Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 028
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 12.3
WELL LEVEL (ft-msl): NA

NORTHING: 468.87407
EASTING: 995.19547

BORING: SM028-TB01
G.S. ELEV.: 639.753
CASING ELEV.: NA
START DATE: 7/14/97
FINISH DATE: 7/14/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM028TB01-0001	Gray, crushed stone aggregate (fill)			
1			0-1			Light brown-gray, shaley clay, little fine to coarse gravel, few fine to coarse sand, damp (CL)			1
2									2
3			1-3	0					3
4					SM028TB01-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		10		0		Light brown-gray, clayey SILT, few fine to coarse sand, trace fine gravel (ML-CL)			9
10									10
11					SM028TB01-1012				11
12								Water at 12.3 ft.	12
13		95		0		Brown, fine to medium sandy CLAY, few silt, wet (CL)			13
14									14
15									15
16									16
17		58		0		Dark brown, fine SAND, little silt, wet (SP)			17
18						Same as above, trace clay, very wet			18
19									19
20									20
21						Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 027
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A
EASTING
NORTHING

BORING NO. SM027-TB09
G.S. ELEV.
CASING ELEV. N/A
START DATE 11/15/99
FINISH DATE 11/15/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					As above, soft, moist grading to wet			
15		3.8	SM027TB09-1315	0	Bottom of boring 16 ft		Water at 15.3 ft	15
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 027
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A
EASTING
NORTHING

BORING NO. SM027-TB09
G.S. ELEV.
CASING ELEV. N/A
START DATE 11/15/99
FINISH DATE 11/15/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0		4	SM027TB09-0001	0	Crushed LIMESTONE Black ASH Brown, clayey SILT, little f sand, trace gravel, stiff, moist			0
5		4	SM027TB09-0305	0	As above			5
10		3		0	As above			10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 027
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1075.68
NORTHING 310.60

BORING NO. SM027-TB08
G.S. ELEV. 641.25
CASING ELEV. N/A
START DATE 11/12/99
FINISH DATE 11/12/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM027TB08-1012					
		3.6		0	As above, grading to brown-yellow, wet		Water at 12 ft	
15					Bottom of boring 16 ft			15
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 027
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1075.68
NORTHING 310.60

BORING NO. SM027-TB08
G.S. ELEV. 641.25
CASING ELEV. N/A
START DATE 11/12/99
FINISH DATE 11/12/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM027TB08-0001		ASPHALT Crushed LIMESTONE			
		4	SM027TB08-0305	0	Brown-yellow, clayey SILT, little gravel and sand, stiff, moist			
5		3.4		22	Dk. gray, f sandy SILT, little clay, stiff, moist			5
		4		0	Dk. gray, silty CLAY, trace f gravel, high plasticity, soft, moist			10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 027
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1074.57
NORTHING 104.79

BORING NO. SM027-TB07
G.S. ELEV. 641.66
CASING ELEV. N/A
START DATE 11/15/99
FINISH DATE 11/15/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4		0	Red-brown, silty CLAY, trace sand and gravel, med. plasticity, soft, moist			
15								15
		4	SM027TB07-1820	0	Red-brown, silty CLAY, trace sand, soft, moist grading to wet			
20					Bottom of boring 20 ft		Water at 19.7 ft	20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 027
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1074.57
NORTHING 104.79

BORING NO. SM027-TB07
G.S. ELEV. 641.66
CASING ELEV. N/A
START DATE 11/15/99
FINISH DATE 11/15/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					ASPHALT			
			SM027TB07-0001		Crushed LIMESTONE			
		4		0	Brown-yellow, clayey SILT, little sand and gravel, stiff, moist			
			SM027TB07-0305					
5								5
		4		0	Dk. gray, f sandy SILT, little clay, stiff, moist			
					As above, trace gravel			
		4		0	Brown-yellow to brown, clayey SILT, little gravel and sand, stiff, moist			
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 027
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 15.8
WELL LEVEL (ft-msl): NA
NORTHING: 219.92330
EASTING: 1234.81022

BORING: SM027-TB06
G.S. ELEV.: 640.211
CASING ELEV.: NA
START DATE: 7/14/97
FINISH DATE: 7/14/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
						Concrete			
1			0-1		SM027TB06-0001	Brown, fine to coarse sandy SILT, little clay, few fine, subangular gravel, trace TDI residue, pieces of wood, damp (fill)			1
2									2
3			1-3	0		Brown, fine to coarse sandy CLAY, few silt, trace fine, subangular gravel, damp (CL)			3
4					SM027TB06-0305				4
5			3-5	0					5
6						Brown, clayey SILT, few fine to coarse sand, trace fine gravel, damp (ML-CL)			6
7									7
8									8
9		73		1.8					9
10						Brown, clayey SILT, little fine to coarse sand, trace fine gravel, damp (ML-CL)			10
11									11
12									12
13		100		0					13
14						Brown, clayey SILT, little fine to coarse sand, damp (ML-CL)		SM27TB06-1315 collected from 13.8 to 15.8 ft.	14
15					SM027TB06-1315				15
16								Water at 15.8 ft.	16
17		100		6.9					17
18						Brown, fine to medium SAND, little silt, saturated (SP)			18
19									19
20									20
21		28		96.9		Bottom of boring 21.5 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 027
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 16.2
WELL LEVEL (ft-msl): NA
NORTHING: 189.44204
EASTING: 1169.78548

BORING: SM027-TB05
G.S. ELEV.: 640.502
CASING ELEV.: NA
START DATE: 7/11/97
FINISH DATE: 7/11/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0						Concrete			0
1					SM027TB05-0102	Brown, CLAY with fine gravel, little fine to coarse sand, trace silt, moist (CL)			1
2			1-2	386					2
3						Dark gray, fine to medium sandy SILT, few clay, trace fine gravel, damp (ML)			3
4					SM027TB05-0305				4
5									5
6			2-6	932		Brown, silty CLAY, little fine sand, trace fine gravel, damp (CL-ML)			6
7									7
8									8
9					SM027TB05-0810				9
10		95		>1999					10
11									11
12									12
13					SM027TB05-1214				13
14		50		1205					14
15					SM027TB05-1416				15
16						Light brown, clayey SILT, trace fine sand, very wet (ML-CL)		Water at 16.2 ft.	16
17						Brown-gray, fine to medium sandy CLAY, few silt, wet (CL)			17
18		100		649		Brown, fine to medium SAND, few silt, wet (SP)			18
19									19
20									20
21									21
22		100		820		Bottom of boring 22 ft			22

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 027
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 15.3
WELL LEVEL (ft-msl): NA
NORTHING: 258.90151
EASTING: 1126.75002

BORING: SM027-TB04
G.S. ELEV.: 639.625
CASING ELEV.: NA
START DATE: 7/11/97
FINISH DATE: 7/11/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM027TB04-0001	Gray, crushed stone aggregate (fill)			
1			0-1	16.7		Brown, fine to coarse sandy SILT, few clay, trace gravel, damp (ML)			1
2						Dark brown, fine to coarse sandy SILT, fine gravel and clay, damp (ML)			2
3			1-3	24.2					3
4					SM027TB04-0305				4
5			3-5	34.8					5
6						Light gray, silty CLAY, trace fine sand and fine gravel, damp (CL)			6
7									7
8									8
9		88		3.8					9
10						Brown, fine to medium sandy SILT, few clay, trace fine gravel, damp (ML)			10
11									11
12					SM027TB04-1113				12
13		90		138.2				SM27TB04-1315 collected from 13.3 to 15.3 ft.	13
14					SM027TB04-1315				14
15						Brown, fine to medium SAND, few silt, trace clay, wet (SP)		Water at 15.3 ft.	15
16									16
17		100		102					17
18									18
19									19
20									20
21		100		2.3		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 027
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 15.8
WELL LEVEL (ft-msl): NA

NORTHING: 153.12622
EASTING: 1128.89549

BORING: SM027-TB03
G.S. ELEV.: 640.304
CASING ELEV.: NA
START DATE: 7/11/97
FINISH DATE: 7/11/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM027TB03-0001	Gray, crushed stone aggregate (fill)			0
1			0-1	0		Brown, fine to coarse, angular gravel, clay, shale fragments, little silt, few fine to coarse sand, damp (fill)			1
2									2
3			1-3	57					3
4					SM027TB03-0305	Brown, fine to coarse sandy SILT, few clay, damp (ML)			4
5			3-5	236					5
6					SM027TB03-0507	Light brown, silty CLAY, few fine sand, damp (CL)		SM27TB03-0507 collected from 5.6 to 7.6 ft.	6
7									7
8						Yellow-brown, fine to coarse sandy SILT, few subangular gravel, trace clay (ML)			8
9		90		>1999		Brown, clayey SILT, few fine sand, trace fine gravel, moist (ML)			9
10									10
11									11
12					SM027TB03-1113				12
13		95		>1999					13
14								SM27TB03-1315 collected from 13.8 to 15.8 ft.	14
15					SM027TB03-1315				15
16						Brown, fine to medium SAND, few silt, wet grading to saturated (SP)		Water at 15.8 ft.	16
17		93		937					17
18									18
19									19
20									20
21		50		276		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 027
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) _____
WELL LEVEL (ft-msl) NA
NORTHING 216.79749
EASTING 1164.11620

BORING SM027-TB02
G.S. ELEV. 640.145
CASING ELEV. NA
START DATE 7/11/97
FINISH DATE 7/11/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM027TB02-0001	Gray, crushed stone aggregate (fill)			
1			0-1	1400		Brown, fine to coarse sandy SILT, little clay, trace fine gravel and crushed stone, damp (ML)			1
2									2
3			1-3	547		Yellow-brown, fine to coarse sandy SILT, little clay, trace fine gravel (ML)			3
4					SM027TB02-0305				4
5			3-5	382		Yellow-brown, silty, fine to coarse SAND, little clay, trace fine gravel (SM)			5
6								SM27TB02-0507 collected from 5.8 to 7.8 ft.	6
7					SM027TB02-0507				7
8									8
9		80		489		No recovery; trace of silt and sand on acetate liner, wet			9
10									10
11									11
12									12
13		0		0		No recovery; trace of silt and sand on acetate liner, wet			13
14									14
15									15
16									16
17		0		0		Brown, fine SAND, little silt, saturated (SP)			17
18									18
19									19
20						Brown, fine to medium SAND, few silt, saturated (SP)			20
21		65		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 027
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 18.6
WELL LEVEL (ft-msl): NA

NORTHING: 57.03930
EASTING: 1036.89870

BORING: SM027-TB01
G.S. ELEV.: 640.082
CASING ELEV.: NA
START DATE: 7/11/97
FINISH DATE: 7/11/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM027TB01-0001	Gray-brown, crushed stone aggregate, fine to coarse sandy silt, trace clay, damp (fill)			1
2						Brown, fine to coarse sandy SILT, little clay, trace fine, subangular gravel, damp (ML-SM)			2
3			1-3	0					3
4					SM027TB01-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		10		0		Brown, clayey, fine to coarse SAND, few silt, trace fine, subangular gravel, moist (SC)			9
10									10
11									11
12									12
13		85		0					13
14									14
15						Brown, fine to coarse sandy CLAY, few silt, trace fine gravel, damp (SC)			15
16									16
17		100		0	SM027TB01-1618	Brown, fine to medium SAND, few silt, trace fine, subrounded, gravel (SM)		SM27TB01-1618 collected from 16.6 to 18.6.	17
18								Water at 18.6 ft.	18
19									19
20									20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 026
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 12.4
WELL LEVEL (ft-msl) NA

NORTHING -362.30278
EASTING 1600.83052

BORING SM026-TB02
G.S. ELEV. 639.588
CASING ELEV. NA
START DATE 7/9/97
FINISH DATE 7/9/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM026TB02-0001	Gray-brown, crushed stone aggregate, fine to coarse sandy silt, trace clay, damp (fill)			1
2						Brown, clayey, fine to coarse SAND, few crushed stone and silt, trace gravel, damp (SC)			2
3			1-3	0					3
4					SM026TB02-0305	Yellow-brown, fine to coarse sandy CLAY, few fine gravel, subangular sandstone and silt, damp (CL)			4
5			3-5	0					5
6						Brown, fine to coarse sandy CLAY, fine gravel, trace silt, very moist (CL)			6
7									7
8									8
9		50		0					9
10									10
11									11
12					SM026TB02-1112			Water at 12.4 ft.	12
13		45		0					13
14									14
15									15
16						Dark gray-brown, clayey, fine to coarse SAND, trace silt, wet (SC)			16
17		53		0		Dark gray, clayey SILT, trace fine sand, wet (ML-CL)			17
18									18
19									19
20									20
21		70		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 026
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 8.3
WELL LEVEL (ft-msl) NA

NORTHING -362.04533
EASTING 1570.96069

BORING SM026-TB01
G.S. ELEV. 639.435
CASING ELEV. NA
START DATE 7/9/97
FINISH DATE 7/9/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM026TB01-0001	Gray, crushed stone aggregate, fine to coarse sandy silt, trace clay, damp (fill)			1
2						Brown, clayey, fine to coarse SAND, few fine, subangular, sandstone gravel, trace crushed stone and silt, damp (SC)			2
3			1-3	0					3
4					SM026TB01-0305	Brown, clayey, fine to coarse SAND, few fine, subangular, sandstone gravel, silty, damp (SC)			4
5			3-5	0					5
6									6
7					SM026TB01-0608				7
8								Water at 8.3 ft.	8
9		65		0					9
10									10
11									11
12									12
13		43		0		Dark gray, clayey silt, few fine sand, trace fine, subrounded gravel, wet (ML-CL)			13
14									14
15									15
16									16
17		100		0		Dark gray, clayey silt, few fine sand (ML-CL)			17
18									18
19									19
20									20
21		75		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 025
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 19.8
WELL LEVEL (ft-msl) NA

NORTHING -711.84237
EASTING 1339.64653

BORING SM025-TB01
G.S. ELEV. 639.785
CASING ELEV. NA
START DATE 7/8/97
FINISH DATE 7/8/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM025TB01-0001	Gray-brown, crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2									2
3			1-3	0		Brown, fine to coarse sandy CLAY, fine sandstone gravel, damp (CL)			3
4					SM025TB01-0305				4
5			3-5	0		Same as above, trace silt			5
6									6
7									7
8									8
9		63		0					9
10									10
11						Brown, fine to medium sandy CLAY, few silt, trace fine gravel, moist (CL)			11
12									12
13		75		0		Gray-brown, fine to medium sandy CLAY, few silt, very moist (CL)			13
14									14
15									15
16									16
17		70		3					17
18					SM025TB01-1719	Light gray, CLAY, trace fine sand, high plasticity, wet (CH)			18
19									19
20								Water at 19.8 ft.	20
21		75		315		Brown, fine to medium SAND, few silt, (SM)			21
22									22
23									23
24				>1999					24
25		100		117		Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 024
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 18
WELL LEVEL (ft-msl) NA

NORTHING -662.65115
EASTING 1129.93495

BORING SM024-TB02
G.S. ELEV. 640.216
CASING ELEV. NA
START DATE 7/3/97
FINISH DATE 7/3/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM024TB02-0001	Gray-brown, crushed stone aggregate, fine to coarse sandy CLAY, trace fine, angular gravel, trace silt, damp (fill)			1
2						Brown, clayey, gravelly SAND, trace silt, very moist (SW)			2
3			1-3	0					3
4					SM024TB02-0305				4
5			3-5	0		Brown-gray, clayey, fine to coarse SAND, few silt, trace fine gravel, damp (SC)			5
6									6
7						Dark gray, clayey, fine to coarse SAND, few silt, trace fine gravel, damp (SC)			7
8									8
9		90		0					9
10									10
11						Brown-gray, clayey, fine to coarse SAND, few silt, trace fine to medium gravel, moist (SC)			11
12									12
13		90		0					13
14									14
15									15
16									16
17		95		0	SM024TB02-1618	Brown, fine to medium SAND, few silt			17
18								Water at 18 ft.	18
19									19
20									20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 024
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 17.0
WELL LEVEL (ft-msl) NA
NORTHING -661.65948
EASTING 1094.51372

BORING SM024-TB01
G.S. ELEV. 640.528
CASING ELEV. NA
START DATE 7/3/97
FINISH DATE 7/3/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM024TB01-0001	Gray-brown, crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2									2
3			1-3	0		Dark brown, fine to coarse sandy CLAY, few fine to coarse gravel, trace silt, damp (CL)			3
4					SM024TB01-0305				4
5			3-5	0					5
6						Dark gray-green, clayey, fine to coarse SAND, trace fine gravel and silt, damp (SC)			6
7									7
8						Dark gray, silty, fine SAND, trace clay and organic matter (SM)			8
9		93		0					9
10									10
11						Dark gray, silty CLAY, few fine to medium sand, damp (CL-ML)			11
12									12
13		55		7.2		Light brown, fine to coarse sandy CLAY, trace fine gravel, trace silt, damp (CL)			13
14									14
15									15
16					SM024TB01-1517				16
17		100		0				Water at 17 ft.	17
18									18
19									19
20						Brown, fine to medium SAND, few silt, trace clay (SW)			20
21		83		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 023
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 18.3
WELL LEVEL (ft-msl): NA

NORTHING: -116.36376
EASTING: 1061.35313

BORING: SM023-TB02
G.S. ELEV.: 640.329
CASING ELEV.: NA
START DATE: 7/10/97
FINISH DATE: 7/10/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0						Concrete			
1–2			0–2	0	SM023TB02-0102	Brown, CLAY, with fine to coarse sand and fine to coarse gravel, (sandstone and shale), few silt, moist (CL)			1–2
2–3			2–3	0					2–3
3–4					SM023TB02-0305				3–4
4–5									4–5
5–6			3–6	0					5–6
6–9									6–9
9–10		55		0		Dark gray, silty CLAY, trace fine sand, damp (CL)			9–10
10–12									10–12
12–14		88		0		Brown and gray, fine to coarse sandy CLAY, few silt, trace fine gravel, yellow-brown mottles, damp (CL)			12–14
14–16									14–16
16–17					SM023TB02-1618	Brown, sandy SILT, fine to medium sand, trace clay, moist (ML)			16–17
17–18		58		0		Brown, fine to medium SAND, trace silt, (SW)		Water at 18.3 ft.	17–18
18–22									18–22
22		100		0		Bottom of boring 22 ft			22

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 023
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 5.0, 18
WELL LEVEL (ft-msl) NA
NORTHING -167.78415
EASTING 1061.08066

BORING SM023-TB01
G.S. ELEV. 640.435
CASING ELEV. NA
START DATE 7/10/97
FINISH DATE 7/10/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0						Concrete			
1–2			0–2	0	SM023TB01-0102	Brown, CLAY, with fine to coarse sand and fine to coarse, subangular gravel, few silt, moist (CL)			1–2
3–5					SM023TB01-0305			Water at 5 ft.	3–5
6			3–6	0		Brown, fine to coarse SAND, little silt, trace fine gravel and clay, saturated (SM)			6
7–9									7–9
10		35		0		Brown, clayey, fine to medium SAND, few silt, moist (SC)			10
11–12						Brown, fine to coarse sandy CLAY, little fine, subangular gravel, few silt, moist (CL)			11–12
13–14		90		0		Gray-brown, clayey SILT, trace fine sand, moist (ML-CL)			13–14
15–16									15–16
17					SM023TB01-1618				17
18		55		0		Brown, fine to medium sandy SILT, trace fine gravel and clay, saturated (ML)		Water at 18.3 ft.	18
19–20						Brown, fine to coarse SAND, few silt, wet to saturated (SW)			19–20
21–22		85		0					21–22
23–25									23–25
26		100		0		Bottom of boring 26 ft			26

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 022
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 17.0
WELL LEVEL (ft-msl): NA

NORTHING: -260.73331
EASTING: 787.23211

BORING: SM022-TB02
G.S. ELEV.: 640.795
CASING ELEV.: NA
START DATE: 7/17/97
FINISH DATE: 7/17/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM022TB02-0001	Asphalt pavement			0
1			0-1			Dark brown, fine, subrounded GRAVEL with fine to coarse sand, damp (fill)			1
2									2
3			1-3	0					3
4					SM022TB02-0305	Brown, fine to coarse sandy CLAY, few silt, trace fine to medium gravel, wet (CL)			4
5			3-5	0					5
6									6
7								Standing water in acetate liner at 7.1 ft.	7
8									8
9		45		0					9
10									10
11									11
12						Dark gray, silty CLAY, little fine sand, trace fine gravel, very moist (CL)			12
13		60		0		Brown-gray, fine to coarse sandy CLAY with fine to medium gravel, few silt, saturated (CL)			13
14									14
15						Brown, fine to coarse SAND, little silt, trace clay (SM-ML)			15
16					SM022TB02-1517				16
17		75		0		Brown, fine to medium SAND, few silt, saturated (SM)		Water at 17 ft-bgs.	17
18									18
19									19
20									20
21		95		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 022
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 18.0
WELL LEVEL (ft-msl) NA
NORTHING -284.43052
EASTING 709.59335

BORING SM022-TB01
G.S. ELEV. 640.515
CASING ELEV. NA
START DATE 7/15/97
FINISH DATE 7/15/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1			Concrete			1
2					SM022TB01-0102	Gray-brown, crushed stone aggregate, fine to coarse sandy SILT, trace clay, damp (fill)			2
3			1-3	0		Brown, fine to coarse sandy CLAY, few silt, trace fine gravel damp. (CL)			3
4					SM022TB01-0305				4
5									5
6			3-6	0		Brown, fine to medium GRAVEL with fine to coarse sand, trace silt, damp (SW)			6
7									7
8									8
9									9
10		30		0					10
11									11
12									12
13									13
14		23		0		Brown, clayey, fine to medium SAND, few silt, wet (SC)			14
15						Brown, fine to coarse SAND, little silt, wet (SW)			15
16									16
17					SM022TB01-1618				17
18		100				Brown, fine to medium SAND, few silt, saturated (SW)		Water at 18.0 ft.	18
19									19
20									20
21									21
22		90		0		Bottom of boring 22 ft			22

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 021
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A

NORTHING: -80.27170
EASTING: 1259.88650

BORING: SM021-TB02
G.S. ELEV.: 640.930
CASING ELEV.: N/A
START DATE: 7/10/97
FINISH DATE: 7/10/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM021TB02-0001	Gray-brown, crushed stone aggregate (fill)			1
2						Brown, fine to coarse SAND with fine to medium gravel, few silt, trace clay, damp (fill)			2
3			1-3	0		Dark gray, fine to coarse sandy SILT, trace fine gravel, moist (ML)			3
4					SM021TB02-0305				4
5			3-5	0					5
6									6
7									7
8					SM021TB02-0709	Yellow-brown, fine to medium sandy CLAY, fine gravel and silt, damp (CL)			8
9		80		198		Gray, clayey SILT, trace fine sand, moist (ML)			9
10									10
11									11
12					SM021TB02-1113				12
13		58		338		Same as above, brown			13
14									14
15								Water at 15.2 ft.	15
16									16
17		45		167		Same as above, dark gray			17
18									18
19					SM021TB02-1820				19
20						Brown, fn to med. SAND, few silt, wet (SM)		Water at 20.3 ft.	20
21		63		223		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 021
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 12.6, 20.3
WELL LEVEL (ft-msl) NA

NORTHING -99.17889
EASTING 1235.81861

BORING SM021-TB01
G.S. ELEV. 640.010
CASING ELEV. NA
START DATE 7/10/97
FINISH DATE 7/10/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM021TB01-0001	Gray, crushed stone aggregate (fill)			0
1			0-1			Brown, gravelly sand, little clay and silt, damp (fill)			1
2									2
3			1-3	0		Dark gray, silty CLAY, trace fine sand, damp (CL)			3
4					SM021TB01-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		88		0					9
10						Brown, fine to coarse sandy CLAY, few fine to medium, subangular gravel, trace silt, damp grading to wet (CL)			10
11								SM21TB01-1012 colleced from 10.6-12.6 ft.	11
12					SM021TB01-1012				12
13		70		9.9		Brown, clayey, fine to coarse SAND, trace fine gravel, moist (SC)		Water at 12.6 ft.	13
14									14
15									15
16									16
17		45		0		Same as above, dark gray			17
18									18
19					SM021TB01-1820				19
20						Brown, fine to medium SAND, few silt, moist grading to wet (SW)		Water at 20.3 ft.	20
21		93		489		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 020
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 8.0, 20.8
WELL LEVEL (ft-msl) NA

NORTHING -158.25558
EASTING 1248.63514

BORING SM020-TB02
G.S. ELEV. 639.814
CASING ELEV. NA
START DATE 7/10/97
FINISH DATE 7/10/97

DEPTH	GEOPROBE RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS
0				SM020TB02-0001	Gray, crushed stone aggregate (fill)		
1		0-1			Brown, fine to coarse sandy CLAY, little fine gravel, few silt, moist (CL)		
2							
3		1-3	0				
4				SM020TB02-0305			
5		3-5	0				
6							
7				SM020TB02-0608			
8							Water at 8 ft.
9	60		0		Same as above, trace gravel		
10							
11							
12							
13	25		0				
14							
15							
16							
17	10		0		Gray-brown silty CLAY, fine sand, moist (CL)		
18							SM20TB02-1820 collected from 18.8 to 20.8 ft.
19							
20				SM020TB02-1820			Water at 20.8 ft.
21	100		158		Brown SAND, few silt, wet (SM)		
22					Bottom of boring 21 ft		

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 020
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 19.4
WELL LEVEL (ft-msl): NA

NORTHING: -177.48137
EASTING: 1206.42541

BORING: SM020-TB01
G.S. ELEV.: 639.914
CASING ELEV.: NA
START DATE: 7/10/97
FINISH DATE: 7/10/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM020TB01-0001	Gray, crushed stone aggregate (fill)			
1			0-1	0		Brown, fine to coarse SAND with fine to coarse gravel, few silt and and clay, moist (fill)			1
2									2
3			1-3	0		Dark gray, silty CLAY, trace fine sand, damp (CL)			3
4					SM020TB01-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		100		0		Yellow-brown, clayey SILT, trace fine sand, moist (ML)			9
10						Gray, silty CLAY, trace fine sand, damp (CL)			10
11						Brown, fine to medium sandy CLAY, few silt, yellow-brown mottles, damp (CL)			11
12									12
13		100		0					13
14									14
15									15
16									16
17		100		0		Dark gray, silty CLAY, trace fine sand, moist (CL)			17
18					SM020TB01-1819				18
19									19
20						Brown, fine to medium SAND, few silt, (SM)		Water at 19.4 ft.	20
21		95		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 019
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 6.0, 20.5
WELL LEVEL (ft-msl): NA

NORTHING: -1367.68866
EASTING: 1415.66723

BORING: SM019-TB04
G.S. ELEV.: 640.261
CASING ELEV.: NA
START DATE: 7/2/97
FINISH DATE: 7/2/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM019TB04-0001	Asphalt pavement			0
1			0-1	0		Gray, crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2						Brown, fine to coarse sandy CLAY, fine gravel, few silt, damp (fill)			2
3			1-3	0					3
4					SM019TB04-0305				4
5			3-5	0	SM019TB04-0506				5
6						Black, TDI residue (fill)		Water at 6 ft.	6
7									7
8						Dark gray, fine to coarse sandy CLAY, few silt, trace fine gravel (CL)			8
9		100		0		Brown, fine to medium sandy CLAY, few silt, very moist (CL)			9
10									10
11									11
12									12
13		100		0					13
14									14
15									15
16									16
17		100		0					17
18								SM019TB04-1820 collected from 18.5 to 20.5 ft.	18
19					SM019TB04-1820	Brown, fine to medium SAND, few silt, trace clay (SW)			19
20									20
21		45		0		Bottom of boring 21 ft		Water at 20.5 ft.	21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 019
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 19.0
WELL LEVEL (ft-msl) NA
NORTHING -1365.26861
EASTING 1281.78108

BORING SM019-TB03
G.S. ELEV. 640.197
CASING ELEV. NA
START DATE 7/2/97
FINISH DATE 7/2/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM019TB03-0001	Asphalt pavement Gray, crushed stone aggregate, fine to coarse sandy silt, trace clay, damp (fill)			1
2									2
3									3
4					SM019TB03-0305	Green, fine to coarse sandy SILT, few fine to medium gravel and clay, damp (ML)			4
5			3-5	237					5
6						Yellow-brown, clayey, fine to coarse SAND, few silt, trace fine to medium gravel and silty shale (SC)			6
7									7
8					SM019TB03-0709				8
9		50		623					9
10									10
11									11
12									12
13		38		0					13
14									14
15									15
16						Brown, fine to coarse sandy CLAY, few silt, very moist (SC)			16
17		30		0					17
18					SM019TB03-1719				18
19						Brown, fine to medium SAND, few silt, trace clay, (SW)		Water at 19.0 ft-bgs.	19
20									20
21		80		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 019
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 13.0, 18.0
WELL LEVEL (ft-msl):
NORTHING: Not Surveyed
EASTING:

BORING: SM019-TB02
G.S. ELEV.:
CASING ELEV.:
START DATE: 6/26/97
FINISH DATE: 6/26/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM019TB02-0001	Asphalt pavement			0
1			0-1			Dark brown, clayey, fine to coarse SAND, few fine gravel, trace silt, damp (fill)			1
2									2
3			1-3	0					3
4					SM019TB02-0305				4
5			3-5	0					5
6									6
7									7
8						Black TDI residue		Sewage/sulfur odor from 8.9 to 15.4 ft.	8
9		60		0		Dark gray, clayey, fine to medium SAND, trace silt (SC)			9
10						Same as above, gray slag fragments			10
11									11
12					SM019TB02-1113				12
13		35		0				Water at 13 ft.	13
14									14
15									15
16						Brown, clayey, fine to medium SAND, few silt, moist (SC)			16
17		100		0	SM019TB02-1618	Brown, fine to medium sandy CLAY, few silt, trace fine gravel, wet (CL)			17
18								Water at 18 ft.	18
19									19
20									20
21		76		<1		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 019
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 16
WELL LEVEL (ft-msl) NA

NORTHING -1429.47752
EASTING 1164.73448

BORING SM019-TB01
G.S. ELEV. 636.839
CASING ELEV. NA
START DATE 7/2/97
FINISH DATE 7/2/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM019TB01-0001	Asphalt pavement			0
1			0-1	0		Blue-gray crushed stone aggregate, fine to coarse sandy silt, wet (fill)			1
2									2
3			1-3	0		Brown, clayey, fine to coarse SAND, fine to coarse, sub-angular to angular gravel, few silt, wet (SC)			3
4					SM019TB01-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		33		0		Dark gray, fine to coarse SAND and CLAY, few silt, trace fine, angular gravel (SC)			9
10									10
11									11
12									12
13		20		0					13
14									14
15					SM019TB01-1416				15
16								Water at 16 ft.	16
17		25		0		Bottom of boring 17 ft			17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 018
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 20
WELL LEVEL (ft-msl): NA
NORTHING: -791.26110
EASTING: 919.20286

BORING: SM018-TB01
G.S. ELEV.: 639.895
CASING ELEV.: NA
START DATE: 7/1/97
FINISH DATE: 7/1/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM018TB01-0001	Asphalt pavement			0
1			0-1	0		Gray, crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2						Brown, clayey, fine to coarse SAND, few silt, trace fine gravel, damp (SC)			2
3			1-3	0					3
4					SM018TB01-0305				4
5			3-5	0					5
6									6
7									7
8						Brown to yellow-brown, fine to coarse sandy CLAY, trace fine gravel and silt, damp (CL)			8
9		33		0					9
10						Dark gray, fine to coarse sandy CLAY, few silt, trace fine gravel (CL)			10
11									11
12						Same as above, brown			12
13		43		0					13
14									14
15									15
16									16
17		80		0.5					17
18									18
19					SM018TB01-1820	Brown SAND, trace silt			19
20								Water at 20 ft.	20
21		70		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 017
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): NA
WELL LEVEL (ft-msl): NA
NORTHING: -1100.31542
EASTING: 862.93158

BORING: SM017-TB02
G.S. ELEV.: 639.594
CASING ELEV.: NA
START DATE: 7/2/97
FINISH DATE: 7/2/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
						Asphalt pavement			
					SM017TB02-0001	Gray, crushed stone aggregate, fine to coarse sandy silt, trrace clay, moist (fill)			
			0-1	0					
1									1
						Brown, fine to coarse sandy CLAY, few silt, trace fine gravel, moist (CL)			
2									2
			1-3	0					
3									3
4					SM017TB02-0305				4
			3-5	0		Bottom of boring 5 ft			
5									5

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 017
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) NA
WELL LEVEL (ft-msl) NA

NORTHING -1099.06594
EASTING 832.14073

BORING SM017-TB01
G.S. ELEV. 639.590
CASING ELEV. NA
START DATE 7/2/97
FINISH DATE 7/2/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
						Asphalt pavement			
					SM017TB01-0001	Gray, crushed stone aggregate, fine to coarse sandy silt, few clay, damp (fill)			
			0-1	0					
1									1
						Brown, fine to medium sandy CLAY, few silt, trace gravel, damp (CL)			
2									2
			1-3	0					
3									3
4					SM017TB01-0305				4
			3-5	0		Bottom of boring 5 ft			
5									5

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 016
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 9.0, 20.0
WELL LEVEL (ft-msl): NA
NORTHING: -777.95420
EASTING: 1039.28248

BORING: SM016-TB01
G.S. ELEV.: 639.271
CASING ELEV.: NA
START DATE: 7/1/97
FINISH DATE: 7/1/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM016TB01-0001	Crushed stone aggregate (fill)			0
1						Brown, fine GRAVEL with fine to coarse sand, few silt and clay, damp (GW)			1
2									2
3			1-3	0		Gray, fine to medium sandy CLAY, trace fine gravel, very moist (CL)			3
4					SM016TB01-0305				4
5			3-5			Same as above.			5
6									6
7									7
8					SM016TB01-0709				8
9		33		1.7				Water at 9 ft.	9
10									10
11									11
12									12
13		63		0.8		Brown, clayey, fine to medium SAND, trace fine gravel and silt, damp (SM)			13
14									14
15									15
16					SM016TB01-1517				16
17		95		78.3		Brown, fine to medium SAND, trace silt, wet (SM)			17
18									18
19					SM016TB01-1820				19
20								Water at 20 ft.	20
21		100		231		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 015
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 3.0, 19.7
WELL LEVEL (ft-msl) NA

NORTHING -1023.04132
EASTING 1371.13365

BORING SM015-TB04
G.S. ELEV. 639.902
CASING ELEV. NA
START DATE 6/27/97
FINISH DATE 6/27/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	11	SM015TB04-0001	Fine to coarse SAND with fine to medium gravel, trace silt and clay, damp (SW)			1
2									2
3								Water at 3 ft.	3
4						Dark gray, clayey, fine to coarse SAND, few fine to medium gravel, silt, wet (SC)			4
5									5
6					SM015TB04-0508				6
7									7
8		55		29					8
9									9
10									10
11									11
12		50		15		No recovery			12
13									13
14									14
15									15
16		0				Dark gray, clayey, fine to coarse SAND, trace fine gravel, silt, wet (SC)			16
17									17
18					SM015TB04-1719			SM15TB04-1719 collected from 17.7 to 19.7	18
19									19
20		65		148		Brown, fine to med. SAND, trace silt, (SM)		Water at 19.7 ft.	20
						Bottom of boring 20 ft			

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 015
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 19.7
WELL LEVEL (ft-msl) NA

NORTHING -1018.62979
EASTING 1330.82790

BORING SM015-TB03
G.S. ELEV. 639.786
CASING ELEV. NA
START DATE 6/27/97
FINISH DATE 6/27/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	16.8	SM015TB03-0001	Brown, medium to fine GRAVEL with fine to coarse sand, few clay, trace silt, damp (GW)			1
2									2
3			1-3	18					3
4					SM015TB03-0305				4
5			3-5	0					5
6						Fine to medium gravelly CLAY, few fine to coarse sand, wet (GC)			6
7						Dark gray, clayey, fine to coarse SAND, few fine to medium gravel, silt, (SC)			7
8					SM015TB03-0709				8
9		35		115.8					9
10									10
11					SM015TB03-1012				11
12				>1999					12
13									13
14					SM015TB03-1316				14
15									15
16				>1999					16
17									17
18					SM015TB03-1719				18
19									19
20				>1999		Brown, fine to medium SAND, trace silt, (SM)		Water at 19.7 ft.	20
21		88		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 015
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 1.4, 21.0
WELL LEVEL (ft-msl): NA

NORTHING: -1058.17131
EASTING: 1300.27755

BORING: SM015-TB02
G.S. ELEV.: 640.062
CASING ELEV.: NA
START DATE: 6/30/97
FINISH DATE: 6/30/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	28.9	SM015TB02-0001	Asphalt pavement			1
						Gray, fine to medium gravelly CLAY, few fine to coarse sand, trace silt, damp (GC)		Water at 1.4 ft.	
3			1-3	138					3
4					SM015TB02-0305				4
5			3-5	2.3					5
9		28		0		Light brown to yellow, shaley SILTSTONE, damp grading to wet			9
13		45		1.7					13
14					SM015TB02-1315	Dark brown, clayey, fine to coarse SAND, few silt, trace fine gravel (SC)			14
17		100		148		Brown, clayey, fine to coarse SAND, trace fine gravel and silt, very moist (SC).			17
20					SM015TB01-1921				20
21		53		13.6		Brown, fine to coarse SAND, trace silt, wet (SW)		Water at 21 ft.	21
25		58		1.2		Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 015
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 11.6
WELL LEVEL (ft-msl): NA
NORTHING: -1078.52186
EASTING: 1344.22535

BORING: SM015-TB01
G.S. ELEV.: 639.870
CASING ELEV.: NA
START DATE: 6/30/97
FINISH DATE: 6/30/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM015TB01-0001	Gray crushed stone aggregate (fill)			1
2						Yellow-brown, fine to coarse SAND, trace fine subangular gravel and silt, damp (SW-SM)			2
3									3
4					SM015TB01-0305				4
5			3-5	0		Same as above, grading to gray, trace fine to coarse gravel			5
6									6
7									7
8					SM015TB01-0709				8
9		65				Dark gray, clayey SILT, few fine to coarse sand, trace fine to coarse gravel, damp grading to wet (ML)			9
10									10
11									11
12								Water at 11.6 ft.	12
13		43		0		Same as above, wet			13
14									14
15									15
16									16
17		50		5.7		Same as above			17
18									18
19								SM015TB01-1820 collected at 18.8-20.8 ft.	19
20					SM015TB01-1820				20
21		43		0		Dark brown, fine to medium SAND, trace silt, wet (SM)		Water at 20.8 ft.	21
22									22
23									23
24									24
25		95		143.2		Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 014
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 21.0
WELL LEVEL (ft-msl): NA
NORTHING: -1938.82656
EASTING: 1340.38342

BORING: SM014-TB03
G.S. ELEV.: 641.070
CASING ELEV.: NA
START DATE: 6/26/97
FINISH DATE: 6/26/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM014TB03-0001	Dark gray to dark brown, clayey, fine to coarse SAND, few fine gravel and crushed stone, trace silt (SC)			1
2									2
3			1-3	3		Dark red-brown, clayey, fine to coarse SAND, few fine gravel, trace silt, moderate plasticity, very damp (SC)			3
4					SM014TB03-0305				4
5			3-5	19.2		Dark brown to gray-olive green, clayey SAND, trace fine gravel, very moist (fill)			5
6									6
7									7
8									8
9		60		0					9
10									10
11									11
12									12
13		65		0					13
14									14
15									15
16						Dark brown, clayey, fine to medium SAND, trace silt, medium plasticity (SC)			16
17		70		0					17
18									18
19									19
20					SM014TB03-1921				20
21		73		0				Water at 21.0 ft.	21
22									22
23						Dark brown, fine to medium SAND, trace silt, wet, (SP)			23
24									24
25		100				Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 014
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 19.2
WELL LEVEL (ft-msl): NA
NORTHING: -1980.24178
EASTING: 1269.89404

BORING: SM014-TB02
G.S. ELEV.: 641.170
CASING ELEV.: NA
START DATE: 6/26/97
FINISH DATE: 6/26/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM014TB02-0001	Asphalt pavement			0
1			0-1			Dark brown, clayey, fine to coarse SAND, fine gravel, crushed stone, very damp, (fill)			1
2									2
3			1-3	0		Same as above, some red-brown soil			3
4					SM014TB02-0305				4
5			3-5	0.6					5
6									6
7									7
8									8
9		13		0					9
10									10
11									11
12									12
13		43		0					13
14									14
15									15
16								SM014TB02-1519 collected from 15.8 to 19.2 ft.	16
17		45		0	SM014TB02-1519	Dark gray, clayey SILT, few fine to medium sand, damp (ML-CL)			17
18						Dark brown, clayey, fine to coarse SAND, few fine gravel, trace silt (SC)			18
19								Water at 19.2 ft.	19
20									20
21		50		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 014
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 18.8
WELL LEVEL (ft-msl): NA
NORTHING: -1948.71051
EASTING: 1205.94985

BORING: SM014-TB01
G.S. ELEV.: 640.833
CASING ELEV.: NA
START DATE: 6/26/97
FINISH DATE: 6/26/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM014TB01-0001	Asphalt pavement			0
1			0-1			Crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2									2
3			1-3	0		Dark brown, clayey, fine to coarse SAND, few fine gravel, damp (SC)			3
4					SM014TB01-0305				4
5			3-5	0		Same as above, yellow-brown, few fine to medium gravel			5
6									6
7									7
8									8
9		58		0					9
10									10
11									11
12									12
13		45		0		Yellow-brown, clayey, fine to medium SAND, trace fine gravel, damp (SC)			13
14						Dark gray, fine to medium sandy CLAY, few silt, damp (CL)			14
15									15
16						Dark brown, clayey, fine SAND, few silt, damp (SC)			16
17		100		0				SM14TB01-1618 collected from 16.8 to 18.8 ft.	17
18					SM014TB01-1618	Dark brown, fine to medium SAND, few silt, (SP)			18
19								Water at 18.8 ft.	19
20									20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 013
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 17.1
WELL LEVEL (ft-msl) N/A

NORTHING 932.94029
EASTING 1066.42138

BORING SM013-TB08
G.S. ELEV. 639.317
CASING ELEV. N/A
START DATE 7/15/97
FINISH DATE 7/15/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0						Asphalt pavement			
1			0-1		SM013TB08-0102	Gray, crushed stone aggregate, trace fine to coarse sand, silt, (fill)			1
2						Brown, fine to medium sandy silt, wet (ML)			2
3			1-3	0		Brown, fine to coarse sandy CLAY, fine gravel, few silt, damp (CL)			3
4					SM013TB08-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		55		0		Dark gray, silty CLAY, trace fine sand, damp (CL)			9
10						Brown, clayey SILT, trace fine sand, gray mottles, damp (ML)			10
11									11
12									12
13		100		0					13
14									14
15						Brown, fine to medium sandy SILT, trace clay, damp grading to wet (ML)			15
16					SM013TB08-1517				16
17								Water at 17.1 ft.	17
18									18
19									19
20									20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 013
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 15.4
WELL LEVEL (ft-msl) N/A

NORTHING 697.68863
EASTING 1135.54986

BORING SM013-TB07
G.S. ELEV. 639.176
CASING ELEV. N/A
START DATE 7/14/97
FINISH DATE 7/14/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM013TB07-0001	Gray, crushed stone aggregate (fill)			0
1			0-1			Yellow-brown, fine to coarse sandy SILT, trace fine gravel, clay, damp (ML)			1
2									2
3			1-3	0					3
4					SM013TB07-0305				4
5			3-5	0					5
6									6
7						Gray-brown, silty CLAY, little fine sand, trace fine gravel, damp (CL)			7
8									8
9		100		0					9
10									10
11									11
12									12
13		58		0		Gray-brown, silty CLAY, trace fine sand and fine gravel, moist grading to wet (CL)			13
14					SM013TB07-1315				14
15								Water at 15.4 ft.	15
16									16
17		100		0					17
18						Brown, fine to medium sandy CLAY, wet (CL)			18
19						Brown, fine to medium SAND, few silt, wet (SW)			19
20									20
21		30		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 013
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 14.7
WELL LEVEL (ft-msl): N/A

NORTHING: 367.40889
EASTING: 1136.32614

BORING: SM013-TB06
G.S. ELEV.: 639.175
CASING ELEV.: N/A
START DATE: 7/14/97
FINISH DATE: 7/14/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM013TB06-0001	Gray, crushed stone aggregate, fine to coarse sandy silt, little clay (fill)			1
2						Brown, fine to coarse sandy SILT, little clay, trace fine subrounded gravel, damp (SM)			2
3			1-3	0		Gray, clayey SILT, few fine sand, trace fine, subrounded gravel, (ML)			3
4					SM013TB06-0305				4
5			3-5	0		Gray, clayey SILT, trace fine sand, brown mottles, high plasticity, moist (ML)			5
6									6
7									7
8									8
9		48		0		Brown, silty CLAY, moderate plasticity, trace fine sand and gravel, moist (CL)			9
10									10
11									11
12									12
13		63		0	SM013TB06-1214				13
14									14
15						Brown, fine to medium sandy CLAY, little silt, wet (CL)		Water at 14.7 ft.	15
16						Gray-brown, fine SAND, few silt, wet (SP)			16
17		100		0					17
18									18
19									19
20									20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 013
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 19.7
WELL LEVEL (ft-msl): N/A

NORTHING: -430.71289
EASTING: 1097.96145

BORING: SM013-TB05
G.S. ELEV.: 639.654
CASING ELEV.: N/A
START DATE: 7/8/97
FINISH DATE: 7/8/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM013TB05-0001	Asphalt pavement			
1			0-1	0		Gray, crushed stone aggregate, fine to coarse sandy silt, slighlty damp (fill)			1
2						Brown, fine to coarse sandy CLAY, little fine to medium, subangular and subrounded gravel, trace silt, very moist (CL)			2
3			1-3	0					3
4					SM013TB05-0305				4
5			3-5	6.8		Brown-yellow, fine to coarse sandy CLAY, few subangular sandstone gravel, trace silt, damp (CL)			5
6									6
7						Same as above			7
8									8
9		65		0		Dark gray, silty CLAY, trace fine sand, damp (CL)			9
10						Yellow-brown, fine to medium, subangular, gravelly CLAY, little fine to coarse sand, trace silt, damp (CL)			10
11									11
12									12
13		55		0		Brown, clayey, fine to medium SAND, few silt, damp (SC)			13
14						Brown, fine to medium sandy SILT, few clay, damp (ML)			14
15						Dark brown, sandy CLAY, few silt, gray mottles, damp (CL)			15
16									16
17		100		0					17
18					SM013TB05-1719	Brown, fine to medium SAND, little clay, few silt, wet (SP)			18
19									19
20								Water at 19.7 ft.	20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 013
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 15.2, 17.8
WELL LEVEL (ft-msl) N/A

NORTHING -778.45392
EASTING 1127.37385

BORING SM013-TB04
G.S. ELEV. 640.442
CASING ELEV. N/A
START DATE 7/3/97
FINISH DATE 7/3/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1					SM013TB04-0001	Gray-brown crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2									2
3			1-3	0		Brown, fine to coarse sandy CLAY, few silt, trace fine gravel (CL)			3
4					SM013TB04-0305				4
5			3-5	0		Dark brown, light brown, green, clayey, fine to coarse SAND, trace fine gravel and silt, damp (SC)			5
6									6
7									7
8									8
9		70		0		Dark gray, silty CLAY, few fine to coarse sand, trace fine gravel and organic matter (CL)			9
10									10
11									11
12					SM013TB04-1113				12
13		55		11.2		Gray, clayey, fine to coarse SAND, fine gravel, dark brown mottles, wet (SC)			13
14									14
15								Water at 15.2 ft.	15
16									16
17		58		26	SM013TB04-1617				17
18						Brown, fine to medium SAND, few silt, trace clay and fine gravel, wet (SW-SM)		Water at 17.8 ft.	18
19									19
20									20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 013
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 11.5, 18.1
WELL LEVEL (ft-msl): N/A

NORTHING: -1205.20449
EASTING: 1108.88687

BORING: SM013-TB03
G.S. ELEV.: 640.060
CASING ELEV.: N/A
START DATE: 7/2/97
FINISH DATE: 7/2/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM013TB03-0001	Gray, crushed stone aggregate, fine to coarse sandy silt, damp, (fill)			1
2									2
3			1-3	0		Green-brown, SANDSTONE boulder			3
4					SM013TB03-0305	Dark brown, fine to coarse sandy CLAY, few fine to medium gravel, trace silt, damp (CL)			4
5			3-5	0					5
6									6
7									7
8									8
9		15		0		Dark gray, fine to coarse sandy CLAY, few fine gravel, trace silt, wet (CL)			9
10									10
11									11
12					SM013TB03-1113			Water at 11.5 ft.	12
13		38		0					13
14						Brown, clayey, fine to medium SAND, few silt, moist (SC)			14
15									15
16									16
17		95		0	SM013TB03-1618				17
18						Brown, fine to medium SAND, few silt, wet (SW)		Water at 18.1 ft.	18
19					SM010TB21-1820				19
20									20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 013
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 13.0, 17.0
WELL LEVEL (ft-msl) N/A

NORTHING -1509.73677
EASTING 1184.31604

BORING SM013-TB02
G.S. ELEV. 640.636
CASING ELEV. N/A
START DATE 6/26/97
FINISH DATE 6/26/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM013TB02-0001	Asphalt pavement			0
1			0-1			Black, fine to medium GRAVEL, fine to coarse sand, trace silt, slag (fill)			1
2									2
3			1-3	0		Gray, fine to coarse sandy CLAY, fine gravel, trace silt, damp (CL)			3
4					SM013TB02-0305				4
5			3-5	0					5
6					SM013TB02-0507	Yellow-brown to dark gray, clayey, fine to coarse SAND, trace fine gravel, damp (SC)			6
7									7
8									8
9		88		0		Same as above, fine to medium gravel			9
10									10
11									11
12					SM013TB02-1113				12
13		100		0		Black, fine to coarse sandy SILT, few clay, trace fine gravel, wet (ML)		Water at 13 ft.	13
14									14
15									15
16					SM013TB02-1517	Brown, fine to coarse sandy CLAY, fine gravel, trace silt, wet (CL)			16
17		80		0		Bottom of boring 17 ft		Water at 17 ft.	17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 013
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 23.2
WELL LEVEL (ft-msl) N/A

NORTHING -2043.17231
EASTING 1083.02519

BORING SM013-TB01
G.S. ELEV. 640.511
CASING ELEV. N/A
START DATE 6/24/97
FINISH DATE 6/24/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM013TB01-0001	Asphalt pavement			1
						Light brown, crushed stone aggregate, fine to coarse sandy silt, damp, (fill)			
3			1-3	0		Yellow-brown, fine to coarse sandy SILT, few clay, trace crushed stone, damp, (fill)			3
4					SM013TB01-0305				4
5			3-5	0					5
9		50		0.4		Dark gray to brown, fine to coarse sandy CLAY, few crushed stone, trace TDI residue, damp, (fill)			9
13		30		0					13
17		43		0		Red-brown, fine to coarse sandy CLAY, trace fine gravel, (CL)			17
19						Dark gray, sandy CLAY (CL)			19
21		53		0	SM013TB01-2023				21
23								Water at 23.2 ft.	23
24						Brown, sandy CLAY (CL)			24
25		50		0		Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 012
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 16.7
WELL LEVEL (ft-msl) N/A

NORTHING -1662.18508
EASTING 1038.47459

BORING SM012-TB03
G.S. ELEV. 640.544
CASING ELEV. N/A
START DATE 6/25/97
FINISH DATE 6/25/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM012TB03-0001	Light gray, crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2						Brown, silty CLAY, few fine to medium sand, damp (fill)			2
3			1-3	0					3
4					SM012TB03-0305				4
5			3-5	0					5
6						Light brown, fine to medium sandy SILT, few clay, moist (fill)			6
7									7
8									8
9		58		1.2					9
10						Brown, fine to coarse sandy CLAY, few silt, trace gravel, moist (fill)			10
11									11
12					SM012TB03-1113				12
13		75		>1999		Dark brown TDI residue (fill)			13
14						Brown, fine to coarse sandy CLAY, trace silt, moist (fill)			14
15									15
16					SM012TB03-1517	Gravel and smeared brown product in soil.			16
17		65		768		Bottom of boring 17 ft		Water at 16.7 ft.	17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 012
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 3.0
WELL LEVEL (ft-msl): N/A

NORTHING: -1750.63916
EASTING: 1028.43623

BORING: SM012-TB02
G.S. ELEV.: 640.254
CASING ELEV.: N/A
START DATE: 6/25/97
FINISH DATE: 6/25/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM012TB02-0001	Crushed stone aggregate, fine to coarse sandy silt, damp (fill)			0
1			0-1			Dark brown, fine to coarse SAND, fine to medium gravel, trace clay and crushed stone, damp (SM)			1
2									2
3			1-3	0				Water at 3 ft.	3
4					SM012TB02-0305	Dark brown, fine to coarse sandy CLAY, fine gravel, trace silt, wet (SC)			4
5			3-5	385					5
6									6
7									7
8									8
9		2.5		51					9
10									10
11					SM012TB02-0913				11
12									12
13		100		>1999		No recovery			13
14									14
15									15
16									16
17		0				Bottom of boring 17 ft			17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 012
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 3.0, 17.0
WELL LEVEL (ft-msl): N/A

NORTHING: -1836.85762
EASTING: 1027.40220

BORING: SM012-TB01
G.S. ELEV.: 639.764
CASING ELEV.: N/A
START DATE: 6/25/97
FINISH DATE: 6/25/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM012TB01-0001	Crushed stone aggregate, fine to coarse sandy silt, damp, (fill)			0
1			0-1			Dark brown, fine to coarse SAND, fine to medium gravel trace clay, (fill)			1
2									2
3			1-3	0		Bright red, dark red and yellow, fine to coarse sandy CLAY, few gravel, trace silt, (fill)		Water at 3 ft.	3
4					SM012TB01-0305				4
5			3-5	0					5
6									6
7									7
8					SM012TB01-0709	Same as above, wet			8
9		50		178					9
10									10
11									11
12					SM012TB01-1113				12
13		100		498					13
14									14
15					SM012TB01-1317	Same as above, dark red-brown, wet			15
16									16
17		85		>1999		Bottom of boring 17 ft			17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 011
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 8.3
WELL LEVEL (ft-msl) N/A

NORTHING -2041.99314
EASTING 1063.66513

BORING SM011-TB01
G.S. ELEV. 640.509
CASING ELEV. N/A
START DATE 6/24/97
FINISH DATE 6/24/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM011TB01-0001	Brown, crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2									2
3			1-3	0					3
4					SM011TB01-0305				4
5			3-5	0		Same as above			5
6									6
7									7
8								Water at 8.3 ft.	8
9		23		0		Same as above			9
10									10
11									11
12									12
13		13		0					13
14		15		0		Refusal; bottom of boring 14.7 ft			14

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 967.07
NORTHING -602.93

BORING NO. SM010-TB25
G.S. ELEV. 640.54
CASING ELEV. N/A
START DATE 11/12/99
FINISH DATE 11/12/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
15		4		0	As above, trace gravel			15
		4	SM010TB25-1820	0	Brown, f SAND, trace gravel and silt, v. loose, moist grading to wet		Water at 19.7 ft	
20					Bottom of boring 20 ft			20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 967.07
NORTHING -602.93

BORING NO. SM010-TB25
G.S. ELEV. 640.54
CASING ELEV. N/A
START DATE 11/12/99
FINISH DATE 11/12/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM010TB25-0001		ASPHALT			
					Crushed LIMESTONE			
		4		0	Brown to brown-yellow, silty SAND, little gravel, clay, dense, moist			
			SM010TB25-0305		Brown to red-brown, silty CLAY, little gravel and sand, low plasticity, v. stiff, moist			
5		4		0				5
					Brown-yellow, shaley CLAY, little silt, trace sand, low plasticity, stiff, moist			
10		4		0	Dk. gray, clayey SILT, little f sand, stiff, moist			10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING -988.05
NORTHING 1473.16

BORING NO. SM010-TB24
G.S. ELEV. 640.31
CASING ELEV. N/A
START DATE 11/16/99
FINISH DATE 11/16/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					As above			
		4	SM010TB24-2123	40				
					Brown, f SAND, trace silt, v. loose, wet		Water at 23.2 ft	
					Bottom of boring 24 ft			
25								25
30								30

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING -988.05
NORTHING 1473.16

BORING NO. SM010-TB24
G.S. ELEV. 640.31
CASING ELEV. N/A
START DATE 11/16/99
FINISH DATE 11/16/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4		9	As above			
15					Brown-yellow, silty CLAY, trace f sand and gravel, low plasticity, med. stiff, v. moist			15
		4		90	Brown, silty CLAY, trace f sand, high plasticity, soft, v. moist			
0								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING -988.05
NORTHING 1473.16

BORING NO. SM010-TB24
G.S. ELEV. 640.31
CASING ELEV. N/A
START DATE 11/16/99
FINISH DATE 11/16/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM010TB24-0001		ASPHALT Crushed LIMESTONE and SLAG			
		4		0	Brown, sandy CLAY, little gravel, trace silt, med. plasticity, soft, v. moist			
5			SM010TB24-0305 SM010TB24-0305D		As above			5
		4		0				
					Brown to dk. gray, sandy CLAY, trace gravel and silt, high plasticity, soft, v. moist			
10		4		3				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1015.55
NORTHING -1234.99

BORING NO. SM010-TB23
G.S. ELEV. 640.11
CASING ELEV. N/A
START DATE 11/12/99
FINISH DATE 11/12/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X				Dk. red-brown, GRAVEL, little sand, silt, v. loose, wet		Water at 11 ft	
					Bottom of boring 12 ft			
15								15
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1015.55
NORTHING -1234.99

BORING NO. SM010-TB23
G.S. ELEV. 640.11
CASING ELEV. N/A
START DATE 11/12/99
FINISH DATE 11/12/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM010TB23-0001		Crushed LIMESTONE			
		4		0	Brown, f SAND, trace gravel, silt, v. loose, moist			
			SM010TB23-0305		As above			
5		4		0				5
			SM010TB23-0810		As above			
10		3		8	Brown to v. dk. red-brown, silty SAND, trace clay, gravel, loose, moist grading to wet			10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1032.22
NORTHING -2388.41

BORING NO. SM010-TB22
G.S. ELEV. 640.24
CASING ELEV. N/A
START DATE 11/15/99
FINISH DATE 11/15/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
	X		SM010TB22-0911				Water at 10.9 ft	
					Bottom of boring 12 ft			
15								15
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1032.22
NORTHING -2388.41

BORING NO. SM010-TB22
G.S. ELEV. 640.24
CASING ELEV. N/A
START DATE 11/15/99
FINISH DATE 11/15/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM010TB22-0001		Crushed LIMESTONE			
		3.6		0	Brown, f sandy SILT, trace clay and gravel, stiff, moist			
			SM010TB22-0305					
5								5
		3		0	Dk. brown, TDI RESIDUE, v. loose, moist			
					As above, moist grading to wet			
			SM010TB22-0911					
10		3.4		4				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 20.0
WELL LEVEL (ft-msl): N/A

NORTHING: -811.19878
EASTING: 1014.61510

BORING: SM010-TB21
G.S. ELEV.: 639.553
CASING ELEV.: N/A
START DATE: 7/1/97
FINISH DATE: 7/1/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1					SM010TB21-0001	Dark gray, crushed stone aggregate, fine to coarse sandy silt, wet (fill)			1
2									2
3			1-3	0					3
4					SM010TB21-0305				4
5			3-5	6.8					5
6						Dark brown to gray, clayey, fine to coarse SAND, trace fine gravel and silt (SC)			6
7									7
8					SM010TB21-0709				8
9		35		176					9
10									10
11									11
12					SM010TB21-1113				12
13		33		>1999		Light brown, fine to medium sandy CLAY, trace silt, moist (CL)			13
14									14
15									15
16									16
17		33		38					17
18									18
19					SM010TB21-1820	Brown, fine to medium SAND, few silt, trace clay (SW)			19
20								Water at 20.0 ft.	20
21		88		>1999		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 20.0
WELL LEVEL (ft-msl) N/A

NORTHING -891.82151
EASTING 1038.73282

BORING SM010-TB20
G.S. ELEV. 639.889
CASING ELEV. N/A
START DATE 7/1/97
FINISH DATE 7/1/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS
1			0-1	0	SM010TB20-0001	Brown, fine to coarse SAND, fine gravel, few clay and silt. (SW)		
2						Dark brown, clayey, fine to coarse SAND, few gravel, trace silt, damp. (SC)		Shelby tube pushed from 1 to 3 ft-bgs in twin boring.
3			1-3	0				
4					SM010TB20-0305			Shelby tube pushed from 3 to 5 ft-bgs in twin boring.
5			3-5	16.8		Same as above		
6								
7								
8								
9		30		2.8		Dark gray, fine to medium sandy CLAY, trace silt and fine gravel, moist (CL)		
10								
11								
12								
13		68		40.6				
14								Shelby tube pushed from 14 to 16 ft-bgs in twin boring.
15								
16					SM010TB20-1617			Golden brown product with sweet odor from 16.5-16.8 ft on acetate liner
17		30		438		Brown, fine to medium sandy SILT, trace fine gravel, trace clay, moist (ML)		
18								
19					SM010TB20-1820			
20								Water at 20.0 ft.
21		35		0		Bottom of boring 21 ft		

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 20.2
WELL LEVEL (ft-msl): N/A
NORTHING: -947.26903
EASTING: 1038.43458

BORING: SM010-TB19
G.S. ELEV.: 639.876
CASING ELEV.: N/A
START DATE: 7/1/97
FINISH DATE: 7/1/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB19-0001	Crushed stone aggregate (fill)			
1			0-1	0		Brown, fine to coarse SAND, some fine gravel, few clay, trace silt, damp, (SW-SM)			1
2						Brown, fine to coarse sandy CLAY, some fine to medium gravel and silt, damp. (CL)			2
3			1-3	0					3
4					SM010TB19-0305				4
5			3-5	0		Same as above, moist			5
6									6
7									7
8									8
9		70		0		Dark gray, clayey, fine to coarse SAND, trace fine gravel and silt, moist (SC)			9
10									10
11									11
12									12
13		83		1.9		Same as above, fine to medium sand			13
14									14
15									15
16									16
17		85		3.1		Same as above, brown			17
18						Brown, fine to medium SAND, trace silt and clay, wet (SW)			18
19					SM010TB19-1820				19
20								Water at 20.2 ft.	20
21		93		0.6		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 10.4, 17.0
WELL LEVEL (ft-msl) N/A

NORTHING -327.59387
EASTING 1471.80961

BORING SM010-TB18
G.S. ELEV. 640.633
CASING ELEV. N/A
START DATE 7/9/97
FINISH DATE 7/9/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB18-0001	Asphalt pavement.			0
1			0-1	68.9		Black, fine to coarse SAND with fine to coarse gravel, few silt, damp, (SW-SM)			1
2									2
3			1-3	0		Light brown to yellow-brown, clayey, fine to coarse SAND, few silt, fine to coarse sandstone and shale gravel, subangular gravel, damp (SW-SC)			3
4					SM010TB18-0305				4
5			3-5	0					5
6						Yellow, sandy CLAY, fine to coarse silt, damp, (CL).			6
7									7
8									8
9		15		0	SM010TB18-0810				9
10						Brown to light gray, clayey SAND, few silt, trace fine gravel (SC)		Water at 10.4 ft.	10
11									11
12									12
13		100		0		Dark gray, clayey SILT, trace fine sand, high plasticity, very moist (ML)			13
14									14
15									15
16					SM010TB18-1517				16
17		100		0				Water at 17.0 ft.	17
18									18
19									19
20						Brown, fine to medium sandy CLAY, few silt, wet (CL)			20
21		75		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 13, 19.4
WELL LEVEL (ft-msl) N/A

NORTHING -324.93552
EASTING 1270.20977

BORING SM010-TB17
G.S. ELEV. 640.017
CASING ELEV. N/A
START DATE 7/9/97
FINISH DATE 7/9/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB17-0001	Asphalt pavement			0
1			0-1	0		Black, fine to coarse SAND, with fine to coarse gravel, few silt, damp (fill)		Shelby tube pushed from 1 to 3 ft-bgs in twin boring.	1
2									2
3			1-3	0		Brown, clayey, fine to coarse SAND, few gravel and silt, damp (SC)		Shelby tube pushed from 3 to 5 ft-bgs in twin boring.	3
4					SM010TB17-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		38		0		Dark gray, clayey SILT, few fine sand, trace gravel, green sandstone, very moist (ML)			9
10						Brown, fine to coarse sandy CLAY, few silt, trace fine, subangular gravel, very moist (CL)		Shelby tube pushed from 10 to 12 ft-bgs in twin boring.	10
11					SM010TB17-1012				11
12								Water at 12.1 ft.	12
13		90		0		Brown, clayey, fine to coarse SAND, few silt, trace fine gravel, very moist (SC)			13
14									14
15									15
16									16
17		85		0					17
18					SM010TB17-1719	Brown, fine to coarse sandy CLAY, few silt, very moist (CL)			18
19						Brown, fine to medium SAND, trace silt, wet (SW)		Water at 19.4 ft.	19
20									20
21		83		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 20.7
WELL LEVEL (ft-msl): N/A

NORTHING: -276.33842
EASTING: 1033.11970

BORING: SM010-TB16
G.S. ELEV.: 639.286
CASING ELEV.: N/A
START DATE: 7/9/97
FINISH DATE: 7/9/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB16-0001	Gray, crushed stone aggregate (fill)			
1			0-1			Brown, CLAY, with fine to coarse gravel and fine to coarse sand, little silt, pieces of aluminum, very moist (fill)			1
2									2
3			1-3	0					3
4					SM010TB16-0305				4
5			3-5	0					5
6									6
7						Gray to brown, silty CLAY, trace fine sand, medium plasticity, damp (CL)			7
8									8
9		100		0					9
10									10
11									11
12									12
13		0		0					13
14									14
15						Brown, fine to coarse sandy CLAY, few silt, trace fine gravel (CL)			15
16									16
17		38		0					17
18						Brown, fine to medium SAND, few silt, trace clay (SW-SM)		SM010TB16-1820 collected from 18.7 to 20.7 ft.	18
19					SM010TB16-1820				19
20								Water at 20.7 ft.	20
21		100		69.1		Bottom of boring 21.5 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 8, 11, 17
WELL LEVEL (ft-msl): N/A

NORTHING: -430.85445
EASTING: 1056.46857

BORING: SM010-TB15
G.S. ELEV.: 639.891
CASING ELEV.: N/A
START DATE: 7/8/97
FINISH DATE: 7/8/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB15-0001	Gray, crushed stone aggregate (fill)			0
1			0-1	0		Brown, clayey, fine to medium, subrounded to subangular, GRAVEL, little fine to coarse Sand, few silt, moist (GC)			1
2									2
3			1-3	0		Same as above, very moist			3
4					SM010TB15-0305				4
5			3-5	0					5
6									6
7					SM010TB15-0708				7
8						Brown, medium to coarse SAND, trace fine gravel (SW)		Water at 8 ft.	8
9		50		11.9		Dark gray, silty CLAY, trace fine sand, moist (CL)			9
10									10
11						Brown, fine to coarse SAND, fine, subrounded gravel, wet (SW)		Water at 11 ft.	11
12						Dark gray, clayey SILT, trace fine sand, damp (ML)			12
13		50		0		Brown, clayey, fine to medium SAND, few silt, damp (SC)			13
14									14
15									15
16					SM010TB15-1517				16
17		35		0		Brown, fine to medium SAND, few silt, trace clay, very moist (SW-SM)		Water at 17 ft.	17
18									18
19									19
20									20
21		78		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 18.3
WELL LEVEL (ft-msl): N/A
NORTHING: -484.75351
EASTING: 1038.45314

BORING: SM010-TB14
G.S. ELEV.: 640.351
CASING ELEV.: N/A
START DATE: 7/8/97
FINISH DATE: 7/8/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1					SM010TB14-0001	Gray, crushed stone aggregate with brown, fine to coarse sandy silt, damp, (fill)			1
2						Brown, fine to coarse SAND, fine to medium subrounded to subangular gravel, little clay, trace silt, damp, (SW)		Shelby tube pushed from 1 to 3 ft-bgs., in twin boring.	2
3			1-3	0					3
4					SM010TB14-0305			Shelby tube pushed from 3 to 5 ft-bgs., in twin boring.	4
5			3-5	6.8					5
6									6
7									7
8						Dark gray, silty CLAY, trace fine sand, damp (CL)			8
9		50		0					9
10									10
11									11
12									12
13		28		0		Light gray, clayey, fine to medium SAND, few silt, brown mottles, damp (SC)			13
14									14
15								Shelby tube pushed from 15 to 17 ft-bgs., in twin boring.	15
16									16
17		100		0	SM010TB14-1618	Light gray, fine to medium sandy CLAY, few silt, damp (SC)			17
18						Dark brown to gray, fine to medium SAND, few silt, damp grading to wet (SM)		Water at 18.3 ft.	18
19									19
20									20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 18.3
WELL LEVEL (ft-msl): N/A

NORTHING: -557.74382
EASTING: 973.64765

BORING: SM010-TB13
G.S. ELEV.: 639.971
CASING ELEV.: N/A
START DATE: 7/8/97
FINISH DATE: 7/8/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM010TB13-0001	Gray, crushed stone aggregate with brown, fine to coarse sandy silt, trace clay, damp (GW-GM)			1
2									2
3			1-3	0		Brown, fine to coarse sandy CLAY, little fine to coarse subangular gravel, trace silt, trace crushed stone, damp (CL)			3
4					SM010TB13-0305				4
5			3-5	0		Brown, fine to coarse sandy CLAY, few gravel, trace silt, damp (CL)			5
6									6
7									7
8									8
9		53		0					9
10									10
11						Dark gray, silty CLAY, trace fine sand, damp (CL)			11
12						Brown, clayey, fine to medium SAND, trace silt, damp (SC)			12
13		70		0					13
14									14
15									15
16									16
17		100		0	SM010TB13-1618				17
18						Brown, fine to medium SAND, few silt, damp grading to wet (SW-SM)		Water at 18.3 ft.	18
19									19
20									20
21		80		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 4.5
WELL LEVEL (ft-msl): N/A

NORTHING: -1007.59987
EASTING: 1452.97805

BORING: SM010-TB12
G.S. ELEV.: 639.933
CASING ELEV.: N/A
START DATE: 6/30/97
FINISH DATE: 6/30/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0						Asphalt pavement			0
1			0-1	0	SM010TB12-0001	Gray, crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2									2
3			1-3	0					3
4					SM010TB12-0305	Dark brown, fine to coarse sandy CLAY, trace fine gravel, damp to wet (CL)			4
5			3-5	29		Same as above.		Water at 4.5 ft.	5
6									6
7									7
8									8
9		33		2.1		Green, silty SHALE			9
10		13		>1999	SM010TB01-1010	Concrete		SM015TB12-1010 collected at 10.0-10.5 ft.	10
						Refusal; bottom of boring 10.5 ft			

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 8.2, 20.1
WELL LEVEL (ft-msl): N/A

NORTHING: -1013.03140
EASTING: 1228.12460

BORING: SM010-TB11
G.S. ELEV.: 640.185
CASING ELEV.: N/A
START DATE: 6/30/97
FINISH DATE: 6/30/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB11-0001	Asphalt pavement			0
1–2			0-1	0		Brown, fine to coarse SAND with fine to medium gravel, few silt, crushed stone, damp (SW-SM)		Shelby tube pushed from 1 to 3 ft-bgs. in twin boring.	1–2
3–4			1-3	0	SM010TB11-0305	Same as above, very dark brown to black		Shelby tube pushed from 3 to 5 ft-bgs. in twin boring.	3–4
5–6			3-5	0		Dark gray, clayey, fine to coarse SAND, few silt, trace fine sub-rounded gravel, brick fragments, very damp to wet, (SC)		Shelby tube pushed from 6 to 8 ft-bgs. in twin boring.	5–6
7–8					SM010TB11-0608			Water at 8.2 ft.	7–8
9		68		11.4		Black, fine to coarse sandy SILT , trace fine gravel, wet (GM)			9
10–12									10–12
13		63		0		Dark brown, clayey, fine to coarse SAND, few fine gravel and silt, very moist (SC)			13
14–16						Dark brown, CLAY, trace fine to medium sand and silt, high plasticity, very moist, (CH)			14–16
17		33		6.4					17
18–19					SM010TB11-1719	Brown, clayey, fine to coarse SAND, trace silt, very moist, (SC)			18–19
20								Water at 20.1 ft.	20
21–23		100		256.2		Dark red-brown, silty, fine to medium SAND, damp, (SW)			21–23
24									24
25		93		76.8		Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 20.1
WELL LEVEL (ft-msl) N/A
NORTHING -1034.53014
EASTING 1127.96627

BORING SM010-TB10
G.S. ELEV. 640.112
CASING ELEV. N/A
START DATE 6/30/97
FINISH DATE 6/30/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM010TB10-0001	Asphalt pavement Dark brown, fine to coarse SAND with fine to medium gravel, few silt, trace crushed stone, (SW-SM)			1
2									2
3									3
4					SM010TB10-0305	Dark brown to gray, fine to coarse sandy CLAY, few fine gravel, trace silt, very moist (CL)			4
5			3-5	258					5
6						Dark gray to brown, clayey, fine to coarse SAND, trace fine gravel, high plasticity, very moist. (SC)			6
7									7
8									8
9		28		18.2		Dark gray, clayey, fine to coarse SAND, trace fine gravel and organic matter, wet (SC)			9
10									10
11									11
12									12
13		48		0		Brown clayey, fine to coarse SAND, trace fine gravel and silt (SC)			13
14									14
15									15
16									16
17		88		6.8		Same as above.			17
18									18
19					SM010TB10-1820				19
20						Brown, fine to med. SAND, tr silt, wet (SW)		Water at 20.1 ft-bgs.	20
21		85		12		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 17.2
WELL LEVEL (ft-msl): N/A
NORTHING: -1030.20889
EASTING: 1097.85876

BORING: SM010-TB09
G.S. ELEV.: 639.761
CASING ELEV.: N/A
START DATE: 6/30/97
FINISH DATE: 6/30/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM010TB09-0001	Brown and gray, crushed stone aggregate with fine to coarse sand, trace silt and clay (fill)			1
2									2
3			1-3	0					3
4					SM010TB09-0305	Dark brown to dark gray, fine to coarse gravelly CLAY, little fine to coarse sand, trace silt, moist (CL)			4
5			3-5	0					5
6									6
7						Same as above.			7
8									8
9		8		23					9
10						Dark gray, clayey, fine to coarse SAND, trace fine gravel and silt, very moist, (SW-SC)			10
11									11
12					SM010TB09-1113				12
13		60		826		Same as above.			13
14									14
15									15
16					SM010TB09-1517				16
17		55		8.2		Fine to coarse sandy CLAY, few silt, moist to wet (CL)		Water at 17.2 ft.	17
18									18
19									19
20									20
21		90		332		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 9.0, 17.0
WELL LEVEL (ft-msl) N/A
NORTHING -1044.85445
EASTING 1039.57761

BORING SM010-TB08
G.S. ELEV. 639.489
CASING ELEV. N/A
START DATE 7/1/97
FINISH DATE 7/1/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1					SM010TB08-0001	Gray-brown, crushed stone aggregate, fine to coarse sandy silt, trace fine gravel, damp (fill)		Shelby tube pushed from 1 to 3 ft-bgs in twin boring.	1
2						Brown, clayey SAND, trace fine to coarse gravel, moist (SC)			2
3			1-3	0				Shelby tube pushed from 3 to 5 ft-bgs in twin boring.	3
4					SM010TB08-0305	Same as above			4
5			3-5	0					5
6						Brown, clayey, fine to coarse SAND, trace fine gravel, moist (SC)			6
7									7
8					SM010TB08-0709				8
9		68		1.2		Same as above.		Water at 9 ft.	9
10									10
11									11
12									12
13		23		0		Dark gray, clayey, fine to coarse SAND, very moist (SC)		Shelby tube pushed from 13 to 15 ft-bgs in twin boring.	13
14					SM010TB08-1315				14
15									15
16									16
17		33		0		Brown, clayey, fine to coarse SAND, moist (SC)		Water at 17 ft.	17
18									18
19									19
20									20
21		70		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 9.0, 19.0
WELL LEVEL (ft-msl) N/A

NORTHING -1098.86089
EASTING 1008.44172

BORING SM010-TB07
G.S. ELEV. 639.693
CASING ELEV. N/A
START DATE 7/3/97
FINISH DATE 7/3/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM010TB07-0001	Gray, crushed stone aggregate, fine to coarse sandy silt, damp (GM)			1
2						Brown, fine to coarse sandy CLAY, trace fine gravel, moist to wet (CL)			2
3			1-3	50					3
4					SM010TB07-0305				4
5			3-5	167.3		Same as above, with trace crushed stone aggregate			5
6									6
7									7
8					SM010TB07-0709				8
9		50		173.2				Water at 9 ft.	9
10									10
11									11
12					SM010TB07-1113	Brown, clayey, fine to medium SAND, few silt, trace fine gravel, moist to wet (SC)			12
13		93		761.3					13
14									14
15									15
16					SM010TB07-1517				16
17		43		217.1					17
18									18
19								Water at 19 ft.	19
20						Brown, fine to coarse SAND, damp (SW)			20
21		65		>1999		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 9.0
WELL LEVEL (ft-msl) N/A

NORTHING -1564.99472
EASTING 1074.13537

BORING SM010-TB06
G.S. ELEV. 640.031
CASING ELEV. N/A
START DATE 6/25/97
FINISH DATE 6/25/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB06-0001	Gray, crushed stone aggregate, fine to coarse sandy silt, damp (fill)			0
1			0-1						1
2						Brown, fine to coarse sandy CLAY, trace fine gravel and silt, moist (CL)			2
3			1-3	0					3
4					SM010TB06-0305	Gray-brown, fine to coarse sandy CLAY, fine to coarse gravel, trace silt, moist (CL)			4
5			3-5	0					5
6									6
7									7
8					SM010TB06-0709				8
9		38		0		Same as above, saturated		Water at 9 ft.	9
10									10
11									11
12									12
13		65		0		Bottom of boring 13 ft			13

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 10.4, 19.1
WELL LEVEL (ft-msl): N/A

NORTHING: -1508.90194
EASTING: 1035.96888

BORING: SM010-TB05
G.S. ELEV.: 639.570
CASING ELEV.: N/A
START DATE: 6/26/97
FINISH DATE: 6/26/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB05-0001	Asphalt pavement			0
1			0-1			Black, fine to coarse SAND with fine to medium gravel, some slag, trace silt, damp (fill)		Shelby tube pushed from 1 to 3 ft-bgs in twin boring.	1
2									2
3			1-3	0		Gray, fine to coarse sandy CLAY, fine gravel, trace silt, very damp (CL)		Shelby tube pushed from 3 to 5 ft-bgs in twin boring.	3
4					SM010TB05-0305				4
5			3-5	0		Gray to brown, fine to coarse sandy CLAY, fine to medium gravel, trace silt and sandstone fragments (CL)			5
6									6
7									7
8					SM010TB05-0709				8
9		35		0		Same as above, wet			9
10								Water at 10.4 ft.	10
11									11
12								Shelby tube pushed from 12 to 14 ft-bgs in twin boring.	12
13		50		0		Yellow-brown, clayey, fine to medium SAND, trace fine gravel, damp (SC)			13
14									14
15						Dark brown, fine to coarse sandy CLAY, few silt, wet (CL)			15
16									16
17		15		0		Brown, clayey, fine to coarse SAND, fine gravel, trace silt, wet (SC)			17
18									18
19								No sample collected	19
20									20
21		0				Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 17.1
WELL LEVEL (ft-msl): N/A
NORTHING: -1510.47184
EASTING: 983.19642

BORING: SM010-TB04
G.S. ELEV.: 638.760
CASING ELEV.: N/A
START DATE: 6/25/97
FINISH DATE: 6/25/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB04-0001	Asphalt pavement			
1–2			0-1			Brown, fine to coarse SAND with fine to medium gravel, trace silt, damp, (SW)			
3–4			1-3	0	SM010TB04-0305	Gray, clayey, fine to coarse SAND, fine gravel, trace silt, damp (SC)			
5–8			3-5	.6		Same as above, some brown and yellow-brown layers and trace medium gravel			
9		100		13.8					
10–12						Dark gray to brown, fine to medium sandy SILT, few clay, damp (ML)			
13		100		0		Dark gray, fine to coarse sandy CLAY, fine gravel, few silt, damp (CL)			
14–15						Brown, fine to coarse sandy SILT, few clay, damp (ML)			
16					SM010TB04-1517				
17		100		0		Brown, fine to medium SAND, trace clay, wet (SC)		Water at 17.1 ft.	
18–20									
21		100		0		Bottom of boring 21 ft			

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 1 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 10.9
WELL LEVEL (ft-msl): N/A

NORTHING: -2519.25831
EASTING: 1071.10804

BORING: SM010-TB03
G.S. ELEV.: 640.276
CASING ELEV.: N/A
START DATE: 6/18/97
FINISH DATE: 6/18/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB03-0001	Crushed stone aggregate (fill)			0
1			0-1			Yellow-brown to dark brown, fine to coarse sandy SILT, few clay, trace crushed stone, damp (ML)			1
2									2
3									3
4					SM010TB03-0305				4
5		63		1.2		Same as above			5
6									6
7									7
8									8
9		85		0		Same as above, dark brown to dark gray		SM10TB03-0810 collected from 8.9 to 10.9 ft.	9
10					SM010TB03-0810				10
11								Perched water at 10.9 ft.	11
12									12
13		90		0		Same as above, dark gray and green, trace fine gravel, damp			13
14									14
15									15
16									16
17		20		8.9		No recovery			17
18									18
19									19
20									20
21		0				Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 010
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 7, 19.7
WELL LEVEL (ft-msl): N/A
NORTHING: -2525.15939
EASTING: 1046.10753

BORING: SM010-TB02
G.S. ELEV.: 639.932
CASING ELEV.: N/A
START DATE: 6/18/97
FINISH DATE: 6/18/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS
0					SM010TB02-0001	Crushed stone aggregate (fill)		
1			0-1			Brown, silty, fine SAND, damp (SM)		Shelby tube pushed from 1 to 3 ft-bgs in twin boring.
2								
3			1-3	0		Same as above.		Shelby tube pushed from 3 to 5 ft-bgs in twin boring.
4					SM010TB02-0305			
5			3-5	0		Same as above, silty clay stringers		
6					SM010TB02-0507			
7								Water at 7 ft.
8								Shelby tube pushed from 7 to 9 ft-bgs in twin boring.
9		80		0				
10								
11								
12								
13		100		0		Gray, fine to medium sandy CLAY, little silt, wet (CL)		Shelby tube pushed from 13 to 15 ft-bgs in twin boring.
14								
15								
16								
17		50		0				
18					SM010TB02-1819			SM10TB02-1819 collected from 18 to 19.7 ft.
19								
20						Dark gray silty CLAY, little fine sand, wet grading to saturated (CL)		Water at 19.7 ft.
21		50		0		Bottom of boring 21 ft		

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 010
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 13.9
WELL LEVEL (ft-msl) N/A

NORTHING -2537.60463
EASTING 1022.28269

BORING SM010-TB01
G.S. ELEV. 640.180
CASING ELEV. N/A
START DATE 6/18/97
FINISH DATE 6/18/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM010TB01-0001	Crushed stone aggregate (fill)			
1			0-1			Yellow-brown, silty fine SAND, trace crushed gravel, damp (fill)			1
2									2
3			2.5-3	10		Brown, fine SAND, damp (fill)			3
4					SM010TB01-0305				4
5			3-5	0					5
6						Dark brown to dark gray, silty CLAY, few fine to coarse sand, trace fine gravel, pieces of organic matter, (fill)			6
7									7
8						Very dark brown to black, TDI residue, loose, dry (fill)			8
9		73		12					9
10						Same as above			10
11									11
12								SM10TB01-1113 collected from 11.9 to 13.9 ft.	12
13		70		5.6	SM010TB01-1113	Same as above			13
14								Water at 13.9 ft.	14
15									15
16									16
17		88		2.2					17
18									18
19									19
20						Dark gray, clayey SILT, little fine sand (ML)			20
21		100		40.6		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 009
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 12.5
WELL LEVEL (ft-msl) N/A

NORTHING -1925.23791
EASTING 987.96166

BORING SM009-TB03
G.S. ELEV. 640.418
CASING ELEV. N/A
START DATE 6/24/97
FINISH DATE 6/24/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	1.2	SM009TB03-0001	Light brown, crushed stone aggregate, fine to coarse sandy silt, trace clay (fill)			1
2									2
3			1-3	0		Dark brown, fine to coarse sandy CLAY, trace fine gravel and silt, damp (CL)			3
4					SM009TB03-0305				4
5			3-5	1.9		Dark brown, clayey, fine to coarse SAND, trace fine gravel and silt (SW-SC)			5
6									6
7						Same as above, dark gray			7
8									8
9		85		0					9
10									10
11					SM009TB03-1012				11
12								Water at 12.3 ft.	12
13		60		1.7		Black TDI residue			13
14						No recovery			14
15									15
16									16
17		0				No recovery			17
18									18
19									19
20									20
21		0				Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 009
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 19.4
WELL LEVEL (ft-msl): N/A

NORTHING: -1958.98118
EASTING: 942.22748

BORING: SM009-TB02
G.S. ELEV.: 640.424
CASING ELEV.: N/A
START DATE: 6/24/97
FINISH DATE: 6/24/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM009TB02-0001	Dark brown, crushed stone aggregate, fine to coarse sandy silt, damp (fill)		Shelby tube pushed from 0 to 2 ft-bgs in twin boring.	1
2									2
3			1-3	0		Same as above, dark gray		Shelby tube pushed from 3 to 5 ft-bgs in twin boring.	3
4					SM009TB02-0305				4
5			3-5	0					5
6									6
7									7
8									8
9		20		0					9
10									10
11									11
12								Shelby tube pushed from 12 to 14 ft-bgs in twin boring.	12
13		28		0					13
14						Light brown, fine to coarse sandy SILT (ML)			14
15									15
16									16
17		100		3.7					17
18					SM009TB02-1719			SM09TB02-1719 collected from 17.4 to 19.4 ft.	18
19						Gray, fine to medium GRAVEL, trace fine to coarse sand (GW)		Water at 19.4 ft.	19
20									20
21		93		3.3		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 009
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 19.6
WELL LEVEL (ft-msl): N/A

NORTHING: -1954.58071
EASTING: 901.45548

BORING: SM009-TB01
G.S. ELEV.: 640.320
CASING ELEV.: N/A
START DATE: 6/24/97
FINISH DATE: 6/24/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM009TB01-0001	Brown, crushed stone aggregate (fill)			1
2						Brown, fine to coarse sandy SILT, few clay, damp (fill)			2
3			1-3	0					3
4					SM009TB01-0305	Fine to coarse sandy CLAY, trace fine gravel and crushed gravel (CL)			4
5			3-5	20.1					5
6									6
7									7
8									8
9		45		9.2		Fine to coarse sandy CLAY, trace fine gravel (CL)			9
10									10
11						Light brown, silty, fine to medium SAND, trace clay (SM)			11
12									12
13		75		9.8					13
14									14
15									15
16									16
17		100		1.4		Brown, fine to medium sandy SILT, trace clay (ML)			17
18					SM009TB01-1719			SM09TB01-1719 collected from 17.6 to 19.6 ft.	18
19								Water at 19.6 ft.	19
20									20
21		100		1.9		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 008
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 13.0
WELL LEVEL (ft-msl): N/A

NORTHING: -2045.09625
EASTING: 780.49838

BORING: SM008-TB01
G.S. ELEV.: 640.890
CASING ELEV.: N/A
START DATE: 6/23/97
FINISH DATE: 6/23/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM008TB01-0001	Crushed stone aggregate, fine to coarse sandy silt (fill)		Shelby tube pushed from 0 to 2.5 ft-bgs in twin boring.	0
1			0-1	166.6		Black, fine to medium GRAVEL with fine to coarse sand, damp (fill)			1
2									2
3			1-3		SM008TB01-0305			Shelby tube pushed from 3 to 5 ft-bgs in twin boring.	3
4									4
5			3-5	200.1					5
6									6
7					SM008TB01-0709				7
8									8
9		65		829.1		Same as above, piece of cresote wood			9
10									10
11					SM008TB01-1113				11
12									12
13		50		529				Water at 13 ft.	13
14						Brown, fine sandy SILT, wet (ML)		Shelby tube pushed from 14 to 16 ft-bgs in twin boring.	14
15					SM008TB01-1416				15
16									16
17		100		537		Bottom of boring 17 ft			17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 847.89
NORTHING -1553.61

BORING NO. SM007-TB15
G.S. ELEV. 640.86
CASING ELEV. N/A
START DATE 11/11/99
FINISH DATE 11/11/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4		1	Brown, f SAND, trace silt, v. loose, wet			
					Bottom of boring 24 ft			
25								25
30								30

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 847.89
NORTHING -1553.61

BORING NO. SM007-TB15
G.S. ELEV. 640.86
CASING ELEV. N/A
START DATE 11/11/99
FINISH DATE 11/11/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown to brown-yellow, silty CLAY, little sand and gravel, stiff, moist			
					Dk. gray, clayey SILT, little f sand, stiff, moist			
		4		5-33				
15								15
					Brown-yellow, clayey SILT, little sand, trace gravel, stiff, moist			
					Brown, silty SAND, little clay, trace gravel, dense, moist grading to wet			
		4		5-10			Water at 19 ft	
0								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 007
DRILLING FIRM: Microseeps
DRILLING METHOD: Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs): N/A
WELL LEVEL: N/A

EASTING: 847.89
NORTHING: -1553.61

BORING NO.: SM007-TB15
G.S. ELEV.: 640.86
CASING ELEV.: N/A
START DATE: 11/11/99
FINISH DATE: 11/11/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM007TB15-0001		ASPHALT Crushed LIMESTONE			
		4		0	Yellow-red to brown-yellow, clayey SILT, little sand, trace gravel, stiff, moist			
5			SM007TB15-0305		Yellow-red to brown-yellow to black, clayey SILT, little sand and gravel, stiff, moist			5
		4		0				
					Dk. brown to dk. gray, clayey SILT, some sand, little gravel, stiff, moist			
10		4		0				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 768.39
NORTHING -1674.94

BORING NO. SM007-TB14
G.S. ELEV. 640.63
CASING ELEV. N/A
START DATE 11/11/99
FINISH DATE 11/11/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0			SM007TB14-1012		Bottom of boring 12 ft		Water at 11.7 ft	0
15								15
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 768.39
NORTHING -1674.94

BORING NO. SM007-TB14
G.S. ELEV. 640.63
CASING ELEV. N/A
START DATE 11/11/99
FINISH DATE 11/11/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM007TB14-0001		Crushed LIMESTONE			
		4		0	Yellow-brown to dk. brown, silty CLAY, little gravel, sand, trace red brick fragments, TDI residue, med. plasticity, soft, moist			
			SM007TB14-0305					
5					Yellow-brown to brown, silty CLAY, little sand, gravel, trace red brick fragments, low plasticity, stiff, moist			5
		3.8		5				
					Brown to black, clayey SILT, little sand, gravel, trace wood, dense, moist			
10		3.5		2				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 740.3367
NORTHING -1984.67

BORING NO. SM007-TB13
G.S. ELEV. 640.75
CASING ELEV. N/A
START DATE 11/11/99
FINISH DATE 11/11/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Brown, silty, f-m SAND, some clay, trace gravel, dense, moist			
		4		0				
15					Brown, silty , f-m SAND, trace clay, dense, moist			15
		4	SM007TB13-1719	0				
					Bottom of boring 20 ft		Water at 19.6 ft	
0								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 740.3367
NORTHING -1984.67

BORING NO. SM007-TB13
G.S. ELEV. 640.75
CASING ELEV. N/A
START DATE 11/11/99
FINISH DATE 11/11/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		4	SM007TB13-0001	1	Dk. brown, silty SAND, little clay, trace gravel, crushed limestone, dense, moist			
5		4	SM007TB13-0305	3	Dk. brown to brown-yellow, silty CLAY, little gravel, sand, trace red brick fragments, shale, med. plasticity, soft, moist			5
					Brown, silty, f-c SAND, little clay, dense, moist			
10		4		0				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 818.88
NORTHING -2303.53

BORING NO. SM007-TB12
G.S. ELEV. 649.44
CASING ELEV. N/A
START DATE 11/10/99
FINISH DATE 11/10/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4		1	Brown, silty, f-m SAND, trace clay, dense, moist			
					Brown, f SAND, trace clay and silt, loose, moist			
25					Brown, silty SAND, trace clay, dense, moist			25
		4	SM007TB12-2527	2				
					Brown, f-m SAND, trace silt, loose, moist to wet		Water at 27.2 ft	
					Bottom of boring 28 ft			
30								30

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 818.88
NORTHING -2303.53

BORING NO. SM007-TB12
G.S. ELEV. 649.44
CASING ELEV. N/A
START DATE 11/10/99
FINISH DATE 11/10/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Crushed LIMESTONE			
		4		2	Dk. brown to brown-yellow, silty SAND, little gravel, trace clay			
15								15
		4		3	Dk. brown, silty SAND, trace gravel and clay, dense, moist			
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 818.88
NORTHING -2303.53

BORING NO. SM007-TB12
G.S. ELEV. 649.44
CASING ELEV. N/A
START DATE 11/10/99
FINISH DATE 11/10/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0		4	SM007TB12-0001 SM007TB12-0305	0	Brown, silty SAND, little crushed limestone, organic matter, roots, dense, moist			0
					Brown, f-m sandy SILT, trace clay, dense, moist			
5		4		2	As above, trace gravel			5
10		4		9	As above			10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 007
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 19.8
WELL LEVEL (ft-msl): N/A
NORTHING: -1861.18666
EASTING: 901.46643

BORING: SM007-TB11
G.S. ELEV.: 640.485
CASING ELEV.: N/A
START DATE: 6/24/97
FINISH DATE: 6/24/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS
0					SM007TB11-0001	Brown, crushed stone aggregate, fine to coarse sandy silt, trace clay, damp (fill)		
1			0-1			Brown, clayey, fine to coarse SAND, trace fine, subangular gravel, trace silt (SC)		
2								
3			1-3	0				
4					SM007TB11-0305			
5			3-5	0		Same as above, black		
6								
7								
8								
9		83		0				
10								
11								
12								
13		63		0		Brown, clayey, fine to medium SAND, few silt, trace fine, subrounded gravel, damp (SC)		
14								
15								
16								
17		100		0				
18					SM007TB11-1719	Fine to medium sandy SILT, trace clay (SM)		SM07TB11-1719 collected from 17.8 to 19.8 ft.
19								
20								Water at 19.8 ft.
21		100		0		Bottom of boring 21 ft		

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 17.0
WELL LEVEL (ft-msl) N/A

NORTHING -2001.43639
EASTING 996.49239

BORING SM007-TB10
G.S. ELEV. 640.096
CASING ELEV. N/A
START DATE 6/23/97
FINISH DATE 6/23/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM007TB10-0001	Crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2									2
3			1-3	0					3
4					SM007TB10-0305				4
5			3-5	0		Same as above			5
6									6
7		50		0				Geoprobe refusal at 7.5 ft; auger to 10 ft.	7
8									8
9									9
10						Gray to brown, crushed stone aggregate, with clayey, fine to coarse sand (fill)			10
11									11
12								Composited soil for SVOC analysis from 10-14 ft-bgs interval and from 14-17 ft-bgs interval due to low recovery from the 10-14 ft-bgs interval.	12
13									13
14		38		173	SM007TB10-1217				14
15									15
16									16
17						Light brown, fine to medium sandy SILT, trace clay (ML)		Water at 17 ft.	17
18		38		28		Bottom of boring 18 ft			18

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 8 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 18.2
WELL LEVEL (ft-msl) N/A

NORTHING -1983.82417
EASTING 814.98244

BORING SM007-TB09
G.S. ELEV. 640.541
CASING ELEV. N/A
START DATE 6/23/97
FINISH DATE 6/23/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM007TB09-0001	Crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2									2
3			1-3	0					3
4					SM007TB09-0305	Brown, fine to coarse sandy SILT with fine to medium, subrounded and angular gravel, trace crushed stone (fill)			4
5			3-5	2					5
6						Brown, crushed stone and concrete, damp (fill)			6
7									7
8									8
9									9
10						Light brown, fine to medium sandy SILT, trace clay, damp (ML)			10
11									11
12		88		11					12
13									13
14									14
15									15
16		100		0		Gray, fine to medium sandy SILT with fine gravel, damp (ML)			16
17					SM007TB09-1618				17
18								Water at 18.2 ft.	18
19									19
20		90		0		Dark brown, fine to medium SAND, trace silt (SW)			20
21									21
22									22
23									23
24		60				Bottom of boring 24 ft			24

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 007
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 7.9
WELL LEVEL (ft-msl): N/A
NORTHING: -2256.20180
EASTING: 980.40372

BORING: SM007-TB08
G.S. ELEV.: 639.411
CASING ELEV.: N/A
START DATE: 6/20/97
FINISH DATE: 6/20/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM007TB08-0001	Asphalt pavement			
1			0-1	0		Crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2						Clayey, fine to coarse SAND, few fine angular gravel, moist (fill)			2
3			1-3						3
4					SM007TB08-0305				4
5			3-5	20.4					5
6									6
7									7
8									8
9		40		29.2		Brown, fine to coarse sandy, silty CLAY, few gravel, fine to medium angular pieces of concrete, wet to saturated (fill)			9
10									10
11									11
12									12
13		58		28		Same as above, moist.			13
14									14
15									15
16									16
17		50		70.2		No recovery		Traces of fine sand and silt in sampler.	17
18									18
19									19
20									20
21		0				Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 007
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Workmon

WATER LEVELS
DRILLING (ft-bgs): 19.1
WELL LEVEL (ft-msl): N/A
NORTHING: -2188.36791
EASTING: 892.96234

BORING: SM007-TB07
G.S. ELEV.: 640.254
CASING ELEV.: N/A
START DATE: 6/23/97
FINISH DATE: 6/23/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0.7	SM007TB07-0001	Asphalt pavement			1
2						Crushed stone aggregate with fine to coarse sandy silt, pieces of firebrick, damp, (fill)			2
3			1-3						3
4					SM007TB07-0305	Brown, clayey, fine to coarse SAND, with fine, angular gravel, damp grading to wet (fill)			4
5			3-5	5					5
6						Same as above, very dark red-brown, trace nails			6
7									7
8									8
9		28		5.2					9
10									10
11									11
12						Light brown, fine to medium sandy SILT, trace clay, very moist (ML)			12
13		50		5					13
14									14
15									15
16									16
17		88		9.9		Very dark gray, fine to coarse sandy SILT, very moist (ML)			17
18					SM007TB07-1719				18
19								Water at 19.1 ft.	19
20						Dark gray sand (SP)			20
21		88		24					21
22									22
23									23
24									24
25		100		8.2		Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 007
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 10.5, 17.0
WELL LEVEL (ft-msl): N/A
NORTHING: -2247.39568
EASTING: 772.30968

BORING: SM007-TB06
G.S. ELEV.: 640.370
CASING ELEV.: N/A
START DATE: 6/20/97
FINISH DATE: 6/20/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	623	SM007TB06-0001	Asphalt pavement			1
						Crushed stone aggregate, sand, damp. (fill)			
2									2
3						Dark brown, fine to coarse sandy, silty CLAY, damp (fill)			3
4					SM007TB06-0305				4
5			3-5	9					5
6						Clayey, fine to coarse SAND, crushed stone and trace TDI, glass, ash, moist (fill)			6
7									7
8									8
9		58		0	SM007TB06-0810			SM07TB06-0810 collected from 8.5 to 10.5.	9
10								Water at 10.5 ft.	10
11						Brown, fine to medium sandy SILT, trace clay. (ML)			11
12									12
13		63		0					13
14									14
15									15
16					SM007TB06-1517				16
17		43		274.7		Same as above, saturated		Water at 17 ft.	17
18									18
19									19
20				180.1					20
21		90		475.2		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 007
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 18.6
WELL LEVEL (ft-msl): N/A
NORTHING: -2249.18182
EASTING: 692.00605

BORING: SM007-TB05
G.S. ELEV.: 639.899
CASING ELEV.: N/A
START DATE: 6/20/97
FINISH DATE: 6/20/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM007TB05-0001	Brown, crushed stone aggregrate, fine to coarse sandy silt, damp (fill)			1
2									2
3			1-3	0					3
4					SM007TB05-0305	Dark brown, fine to coarse sandy SILT, trace fine gravel and clay, damp (ML)			4
5			3-5	0					5
6									6
7									7
8									8
9		100		0					9
10									10
11									11
12									12
13		100		0		Dark brown, fine to coarse sandy SILT, trace clay, moist (ML)			13
14									14
15									15
16									16
17		100		1.9	SM007TB05-1618	Same as above, gasoline odor, wet.			17
18									18
19						Very dark brown to dark gray, fine to coarse sandy SILT, wet (ML)		Water at 18.6 ft.	19
20									20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A

NORTHING -1679.55996
EASTING 847.84167

BORING SM007-TB04
G.S. ELEV. 640.627
CASING ELEV. N/A
START DATE 6/25/97
FINISH DATE 6/25/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0									0
			0-1		SM007TB04-0001	Crushed stone aggregate, fine to coarse sandy silt, damp, (fill)			
1									1
2									2
			1-3	0					
3								Shelby tube pushed from 3 to 5 ft-bgs in twin boring.	3
						Light brown sandy CLAY, fine to coarse sand, few silt, trace fine gravel (fill)			
4					SM007TB04-0305				4
			3-5	86.9					
5								Shelby tube pushed brom 4 to 7 ft-bgs in twin boring.	5
6									6
7						Black TDI residue, tarry substance, (fill)			7
8					SM007TB04-0709				8
		65		436		Refusal; Bottom of boring 9 ft.			
9									9

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 007
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 15.1
WELL LEVEL (ft-msl) N/A
NORTHING -1719.89249
EASTING 964.35254

BORING SM007-TB03
G.S. ELEV. 640.620
CASING ELEV. N/A
START DATE 6/25/97
FINISH DATE 6/25/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM007TB03-0001	Brown, crushed stone aggregate, fine to coarse sandy silt, damp (fill)			1
2						Dark gray, silty CLAY, few fine to coarse sand, damp (fill)			2
3			1-3	0					3
4					SM007TB03-0305	Dark brown, clayey, fine to coarse SAND, few fine to medium gravel, damp (fill)			4
5			3-5	0					5
6						Gray to yellow-brown, clayey, fine to coarse SAND, few gravel, damp, (fill)			6
7									7
8									8
9		100		0					9
10						Light yellow-brown to light gray, fine to coarse sandy CLAY, few fine gravel, trace silt, damp, (fill)			10
11									11
12									12
13		70		0					13
14					SM007TB03-1315				14
15						Black, TDI (fill)		Water at 15.1 ft.	15
16						Dark brown, fine to medium sandy SILT, wet. (ML)			16
17		75		16.8		Dark brown to gray CLAY, trace silt, high plasticity, wet. (CH)			17
18									18
19									19
20						Dark brown, fine to medium SAND, few silt, wet. (SW)			20
21		68		0					21
22									22
23									23
24									24
25		85		0		Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 007
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 16.4, 19.1
WELL LEVEL (ft-msl): N/A

NORTHING: -2024.21793
EASTING: 974.63941

BORING: SM007-TB02
G.S. ELEV.: 640.373
CASING ELEV.: N/A
START DATE: 6/24/97
FINISH DATE: 7/17/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM007TB02-0001	Brown to black, crushed stone aggregate, fine to coarse sandy SILT, trace fine gravel, damp (fill)			1
2									2
3			1-3	0					3
4					SM007TB02-0305				4
5			3-5	19.8					5
6									6
7						Black, TDI residue (fill)			7
8									8
9		75		13.3		Brown to black, crushed stone aggregate, fine to coarse sandy SILT, trace fine gravel, damp (fill)			9
10						Dark brown, fine to medium sandy SILT, trace clay (ML)			10
11						Light brown, silty, fine SAND, trace clay (SM)			11
12					SM007TB02-1113				12
13		95		110		Same as above, wet			13
14									14
15									15
16								Water at 16.4 ft.	16
17		60		40.8					17
18					SM007TB02-1719	Brown, fine to medium SAND, few silt, trace fine, subrounded gravel, wet (SP)			18
19									19
20									20
21		100		7.9		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 007
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 10.9, 17.0
WELL LEVEL (ft-msl): N/A
NORTHING: -2149.68193
EASTING: 846.92040

BORING: SM007-TB01
G.S. ELEV.: 640.693
CASING ELEV.: N/A
START DATE: 6/23/97
FINISH DATE: 6/23/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM007TB01-0001	Asphalt pavement			
1			0-1			Crushed stone aggregrate with fine to coarse sandy silt (fill)			1
2						Brown, clayey, fine to coarse SAND, with fine, angular gravel (fill)			2
3			1-3						3
4					SM007TB01-0305				4
5			3-5	0.0		Brown to gray, crushed GRAVEL with fine to coarse sandy clay, damp (fill)		Shelby tube pushed from 0 to 2.5 ft-bgs in twin boring.	5
6									6
7									7
8									8
9		73		48.8		Dark gray, fine to medium sandy SILT, trace clay, (ML)		Water at 10.9 ft.	9
10						Same as above, grading to light brown, trace fine gravel, very moist			10
11									11
12									12
13		75		4.0					13
14									14
15									15
16					SM007TB01-1517				16
17		100		0.0		Same as above		Water at 17.0 ft.	17
18									18
19									19
20									20
21		100		0.0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 006
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1239.97
NORTHING -2378.22

BORING NO. SM006-TB07
G.S. ELEV. 640.80
CASING ELEV. N/A
START DATE 11/10/99
FINISH DATE 11/10/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					As above, moist grading to wet			
15		2.4	SM006TB07-1315	6	Bottom of boring 16 ft		Water at 15 ft	15
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 006
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1239.97
NORTHING -2378.22

BORING NO. SM006-TB07
G.S. ELEV. 640.80
CASING ELEV. N/A
START DATE 11/10/99
FINISH DATE 11/10/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		3.3	SM006TB07-0001	0	Brown, clayey SILT, little f sand and gravel, dense, moist			
5		3.7	SM006TB07-0305	0	Brown, silty CLAY, trace sand and gravel, med. stiff, med. plasticity, moist			5
10		1.8		0	Brown to v. dk. gray, red-brown mottles, silty CLAY, trace sand and gravel, soft, med. plasticity, damp to moist			10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 006
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1398.20
NORTHING -2373.34

BORING NO. SM006-TB06
G.S. ELEV. 640.52
CASING ELEV. N/A
START DATE 11/11/99
FINISH DATE 11/11/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
15		4	SM006TB06-1315	0	Dk. gray, clayey SILT, little f-m sand, trace shale and gravel, soft, moist grading to wet		Water at 15 ft	15
					Bottom of boring 16 ft			
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 006
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1398.20
NORTHING -2373.34

BORING NO. SM006-TB06
G.S. ELEV. 640.52
CASING ELEV. N/A
START DATE 11/11/99
FINISH DATE 11/11/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM006TB06-0001		ASPHALT Crushed LIMESTONE			
		4		0	Brown, silty, f-c SAND, trace gravel and clay, dense, moist			
			SM006TB06-0305		Brown, silty, f-c SAND, little weathered shale, trace gravel and clay, dense, moist			
5		4		0				5
					Brown, brown-yellow, dk. gray to black, silty SAND, little sandstone and shale fragments, dense, moist			
10		4		3				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 006
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) 23.4
WELL LEVEL (ft-msl) N/A

NORTHING -2715.68832
EASTING 1320.35811

BORING SM006-TB05
G.S. ELEV. 639.968
CASING ELEV. N/A
START DATE 6/16/97
FINISH DATE 6/16/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM006TB05-0001	Asphalt pavement			1
2						Crushed stone aggregate (fill)			2
3						Dark brown, silty CLAY, damp, (fill)			3
4					SM006TB05-0305	Same as above, trace fine sand, (fill)			4
5			3-5	24		Dark brown, silty CLAY, trace brick fragments, sandstone and glass fragments (fill)			5
6									6
7									7
8									8
9		80		40					9
10					SM006TB05-0911	Yellow-brown, silty CLAY, slightly damp (CL)			10
11									11
12									12
13		100		127		Same as above			13
14									14
15									15
16									16
17		100		0		Same as above, trace very fine sand, damp (CL)			17
18									18
19									19
20						Dark brown, clayey SILT, damp (ML)			20
21		100		0					21
22					SM006TB05-2123	Dark brown to yellow-brown, silty CLAY, little fine to coarse sand, damp grading to wet (ML)			22
23									23
24								Water at 23.4 ft.	24
25						Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 006
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 7.0, 20.0
WELL LEVEL (ft-msl): N/A

NORTHING: -2824.02207
EASTING: 1196.81416

BORING: SM006-TB04
G.S. ELEV.: 639.082
CASING ELEV.: N/A
START DATE: 6/18/97
FINISH DATE: 6/18/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM006TB04-0001	Crushed stone aggregate			
1			0-1	0		Brown sandy SILT, fine to coarse sand, trace fine gravel, (fill)			1
2									2
3			1-3	0		Dark brown, sandy SILT, fine to coarse sand, trace fine gravel and clay (fill)			3
4					SM006TB04-0305				4
5			3-5	21					5
6					SM006TB04-0507	Dark gray-brown sandy CLAY/silt, fine to coarse sand, few crushed stone, trace gravel, decaying wood, and metal pieces, polycarbonate resin, (fill)			6
7								Water at 7 ft.; 40 ppm from 7-9 ft.	7
8									8
9		70		40.0					9
10									10
11									11
12									12
13		0		0		Brown sandy SILT, fine to medium sand, trace clay and fine gravel, damp. (ML)			13
14									14
15									15
16									16
17		68		0					17
18									18
19					SM006TB04-1820				19
20								Water at 20 ft.	20
21		100		0		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 006
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 19
WELL LEVEL (ft-msl): N/A

NORTHING: -2606.30042
EASTING: 1077.99363

BORING: SM006-TB03
G.S. ELEV.: 640.763
CASING ELEV.: N/A
START DATE: 6/17/97
FINISH DATE: 6/17/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM006TB03-0001	Crushed stone aggregate			0
1–2			0–1			Brown, SAND with fine to medium gravel, trace silt, slightly damp, (fill)			1–2
3–4			1–3	0		Brown, sandy SILT, fine to coarse sand, few gravel, damp, (fill)			3–4
5			3–5	243					5
6–8					SM006TB03-0507	Brown SAND, with fine to medium gravel, little black glass, trace brick fragments, decayed wood, damp, (fill)			6–8
9		75		343					9
10–12						Very dark gray-brown, sandy CLAY, fine to coarse sand, few fine to medium gravel, trace crushed stone fragments. (CL)			10–12
13		50		28.1					13
14–16					SM006TB03-1315				14–16
17		88		367					17
18–19					SM006TB03-1719	Dark brown sandy CLAY, very fine medium sand, trace coarse sand and fine gravel, damp. (CL)		Water at 19 ft.	18–19
20									20
21		100		264		Bottom of boring 21 ft			21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 006
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 23.0
WELL LEVEL (ft-msl): N/A

NORTHING: -2547.76585
EASTING: 1322.12451

BORING: SM006-TB02
G.S. ELEV.: 639.350
CASING ELEV.: N/A
START DATE: 6/17/97
FINISH DATE: 6/17/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM006TB02-0001	Crushed stone aggregate			1
						Dark brown, medium SAND, very damp, (fill)			
3								Shelby tube pushed 0-2.5 ft. in twin boring	3
4					SM006TB02-0305				4
5			3-5	0		Same as above, trace fine gravel		Shelby tube pushed 3-5 ft. in twin boring	5
7								Shelby tube pushed 5-7 ft. in twin boring	7
8					SM006TB02-0709	Yellow-brown, very fine SAND and silty CLAY, damp, (fill)			8
9		100		40.9		Fine to coarse SAND, trace fine to med. gravel, trace silt, damp, (fill)			9
10				10.2		Dark gray-brown, silty CLAY, trace fine sand, damp, (fill)			10
12						Yellow-brown sandy SILT, very fine to fine sand, damp, (fill)			12
13		75		0		Yellow-brown, sandy SILT, fine to medium sand, trace fine gravel, trace glass fragments, damp, (fill)		Shelby tube pushed 15-17 ft. in twin boring	13
16					SM006TB02-1517				16
17		40		68.9		Yellow-brown to dark gray-brown, fine to coarse sandy CLAY, trace fine gravel (CL)			17
21		100		0					21
22					SM006TB02-2123	Yellow-brown, sandy CLAY, damp grading to wet			22
23								Water at 23 ft.	23
25		100		0		Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 006
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 23
WELL LEVEL (ft-msl): N/A

NORTHING: -2441.58500
EASTING: 1290.82230

BORING: SM006-TB01
G.S. ELEV.: 639.254
CASING ELEV.: N/A
START DATE: 6/17/97
FINISH DATE: 6/17/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM006TB01-0001	Crushed stone aggregate (fill)			1
2						Brown, fine to coarse, sandy SILT, few fine to medium crushed stone, slightly damp, (fill)			2
3			1-3	0		Brown, fine to coarse, sandy SILT, trace fine gravel, (fill)			3
4					SM006TB01-0305				4
5			3-5	0		Same as above			5
6						Yellow-brown to dark brown, silty CLAY, few fine to medium sand, trace fine gravel, damp, (fill)			6
7									7
8					SM006TB01-0709				8
9		100		62					9
10						Dark brown, sandy CLAY, few silt, fine to coarse sand, trace fine gravel, glass and decaying wood pieces, (fill)			10
11									11
12					SM006TB01-1113				12
13		100		135		Yellow-brown to brown, silty/fine sandy CLAY, trace fine gravel, (SP/SC).			13
14									14
15									15
16									16
17		100		12		Same as above			17
18									18
19									19
20									20
21		58		2.8		Same as above.			21
22					SM006TB01-2123				22
23								Water at 23 ft.	23
24									24
25		100		0		Bottom of boring 25 ft			25

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 977.21
NORTHING -2401.61

BORING NO. SM005-TB15
G.S. ELEV. 641.10
CASING ELEV. N/A
START DATE 11/10/99
FINISH DATE 11/10/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
					Dk. brown, TDI residue			
		4	SM005TB15-1415	3				
15							Water at 15 ft	15
					Bottom of boring 16 ft			
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 977.21
NORTHING -2401.61

BORING NO. SM005-TB15
G.S. ELEV. 641.10
CASING ELEV. N/A
START DATE 11/10/99
FINISH DATE 11/10/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM005TB15-0001		ASPHALT			
					Crushed LIMESTONE			
					Brown, silty SAND, trace clay and TDI residue, loose, moist			
		4		2	Brown to dk. brown, silty SAND and TDI residue, v. loose, moist			
					Brown, silty SAND, dense, moist			
			SM005TB15-0305		Dk. brown, TDI residue			
5								5
		4		3	Brown-yellow, silty SAND, little weathered shale and clay, trace gravel, dense, moist			
					Dk. brown, TDI residue			
10		4		2				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 712.58
NORTHING -2476.91

BORING NO. SM005-TB14
G.S. ELEV. 649.51
CASING ELEV. N/A
START DATE 11/10/99
FINISH DATE 11/10/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM005TB14-0811					
					Dk. gray to black, SHALE and TDI RESIDUE, dense, dry			
					Dk. gray to black, SHALE fragments, dense, dry			
		3.6		80/ 561	Dk. gray-brown, silty SAND, trace f gravel, clay, wood pieces, dense, damp to moist			
15			SM005TB14-1516					15
					As above, wet		Water at 16 ft	
		3.8						
					Brown, f SAND, little silt, trace clay, loose, moist			
20					Bottom of boring 20 ft			20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 712.58
NORTHING -2476.91

BORING NO. SM005-TB14
G.S. ELEV. 649.51
CASING ELEV. N/A
START DATE 11/10/99
FINISH DATE 11/10/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4	SM005TB14-0001 SM005TB14-0001D	0	Brown, sandy SILT, sod, trace gravel, organic matter, roots, dense, moist Brown, f-m sandy SILT, little clay, trace gravel, dense, moist			
5		4	SM005TB14-0305	2-7	As above			5
		4	SM005TB14-0811	47/672	Dk. brown to v. dk. gray, f-m sandy SILT, little clay, trace gravel, dense, moist			
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 858.90
NORTHING -2589.88

BORING NO. SM005-TB13
G.S. ELEV. 648.69
CASING ELEV. N/A
START DATE 11/9/99
FINISH DATE 11/9/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM005TB13-1012					
		4		18/ 101	Dk. brown, silty SAND, little TDI residue, trace gravel, dense, moist			
15			SM005TB13-1416					15
					Bottom of boring 16 ft		Water at 16 ft	
20								20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 858.90
NORTHING -2589.88

BORING NO. SM005-TB13
G.S. ELEV. 648.69
CASING ELEV. N/A
START DATE 11/9/99
FINISH DATE 11/9/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4	SM005TB13-0001	0	Brown, silty, f-m SAND, little clay, trace gravel, dense, moist			
5		4	SM005TB13-0305	0	Brown, clayey SILT, little f sand, v. dense, moist			5
					Brown, clayey SILT, little f sand, trace gravel, dense, moist			
10		4		50				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 800.26
NORTHING -2831.50

BORING NO. SM005-TB12
G.S. ELEV. 641.18
CASING ELEV. N/A
START DATE 11/9/99
FINISH DATE 11/9/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
15		4		47/ 110				15
					Brown, silty f SAND, little clay, dense, moist			
		2	SM005TB12-1820	40/ 510				
					Brown, f SAND, little silt, trace clay, loose, moist			
20					Bottom of boring 20 ft		Water at 20 ft	20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 800.26
NORTHING -2831.50

BORING NO. SM005-TB12
G.S. ELEV. 641.18
CASING ELEV. N/A
START DATE 11/9/99
FINISH DATE 11/9/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
		4	SM005TB12-0001	18	Dk. brown, sandy SILT, some gravel, little clay, trace wire, wood, and unidentified fibers, dense, moist			
5		1	SM005TB12-0305	97	Dk. brown to v. dk. gray, silty CLAY, little f-m sand, trace gravel, soft, damp to moist			5
		3	SM005TB12-0608	700/ 1700	Dk. brown to v. dk. gray, silty SAND, little clay, trace gravel, dense, moist			
10		4		63				10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 16.5
WELL LEVEL (ft-msl): N/A

NORTHING: -2525.49206
EASTING: 981.35099

BORING: SM005-TB04
G.S. ELEV.: 641.200
CASING ELEV.: N/A
START DATE: 6/19/97
FINISH DATE: 6/19/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM005TB04-0001	Asphalt pavement			0
1			0-1			Gray, crushed stone aggregate			1
2						Brown, fine to coarse sandy SILT, trace fine gravel, (fill)			2
3						Dark brown, TDI residue fragments, moist, (fill)			3
4					SM005TB04-0305				4
5			3-5	26		Same as above			5
6									6
7									7
8									8
9		100		1.2		Same as above			9
10									10
11									11
12									12
13		100		23		Same as above			13
14									14
15									15
16									16
17		25			SM005TB04-1617	Bottom of boring 17 ft		Water at 16.5 ft.	17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 16.6
WELL LEVEL (ft-msl): N/A
NORTHING: -2699.96355
EASTING: 985.76318

BORING: SM005-TB03
G.S. ELEV.: 640.638
CASING ELEV.: N/A
START DATE: 6/18/97
FINISH DATE: 6/18/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM005TB03-0001	Asphalt pavement			0
1			0-1			Crushed stone aggregate		Shelby tube pushed from 1 to 3 ft.	1
2									2
3			1-3	0		Brown, fine to medium sandy SILT, trace clay, (fill)			3
4					SM005TB03-0305				4
5			3-5	0		As above			5
6									6
7									7
8						Dark brown to black, TDI residue, damp, (fill)			8
9		100		0					9
10									10
11									11
12									12
13		70		0					13
14		15		0				Shelby tube pushed from 14 to 16 ft.	14
15					SM005TB03-1416	Dark red-brown, fine to coarse sandy CLAY, few fine gravel, few TDI residue fragments, (fill)			15
16									16
17								Water at 16.6 ft.	17
18		75		9		Bottom of boring 18 ft			18

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 8.8, 20.9
WELL LEVEL (ft-msl): N/A

NORTHING: -2763.84666
EASTING: 1115.72160

BORING: SM005-TB02
G.S. ELEV.: 640.295
CASING ELEV.: N/A
START DATE: 6/19/97
FINISH DATE: 6/19/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM005TB02-0001	Crushed stone aggregate			
1			0-1	0.3		Dark red-brown, fine to coarse sandy SILT, trace fine gravel, polycarbonate resin and clay, (fill)			1
2									2
3			1-3	0					3
4					SM005TB02-0305	Very dark gray, fine to coarse sandy SILT, little cinders/ash, few TDI residue fragments, trace clay, (fill)			4
5			3-5	389					5
6						Very dark gray, fine to coarse sandy SILT, some TDI residue fragments, trace clay, (fill)			6
7					SM005TB02-0509				7
8									8
9		60		682				Water at 8.8 ft.	9
10									10
11									11
12									12
13		100		0		Dark gray, fine to coarse sandy CLAY, trace fine gravel, (CL)			13
14									14
15									15
16					SM005TB02-1517	Brown, fine sandy SILT, trace clay, moist (ML/SM)			16
17		45		60.2					17
18									18
19					SM005TB02-1820				19
20									20
21		55		0.7		Bottom of boring 21 ft		Water at 20.9 ft.	21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 16.6
WELL LEVEL (ft-msl): N/A
NORTHING: -2840.60004
EASTING: 868.70938

BORING: SM005-TB01
G.S. ELEV.: 641.350
CASING ELEV.: N/A
START DATE: 6/19/97
FINISH DATE: 6/19/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1	0	SM005TB01-0001	Brown stone aggregate, sandy SILT matrix, slightly damp, (fill)			1
2						Brown SILT, fine to coarse sand, trace fine gravel, (fill)			2
3			1-3	0					3
4					SM005TB01-0305				4
5			3-5	21					5
6									6
7									7
8									8
9		75		40		Brown to black TDI resin, (fill)		40ppm on HNu at 8.5 ft-bgs.	9
10						Yellow-brown, clayey, fine to coarse SAND, few fine gravel, subangular, damp, (SC)			10
11									11
12						Dark gray clayey SILT, trace fine to medium sand, (ML)			12
13		80		0					13
14						Yellow-brown silty CLAY, trace fine to coarse sand, (CL)			14
15					SM005TB01-1416			SM005TB01-1416 collected from 14.6 to 16.6 ft.	15
16									16
17		100		0		Bottom of boring 17 ft		Water at 16.6 ft.	17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 004
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 1085.41963
EASTING: -2967.08632

BORING: SM004-TB06
G.S. ELEV.: 628.127
CASING ELEV.: N/A
START DATE: 10/29/96
FINISH DATE: 10/29/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			2			Brown sandy clay soil, little organic matter, soft, nonplastic, damp, (fill)			1
			1						
			1			Brown and white fine grain ash, loose, dry to damp, (fill)			
2		<25	1	0					2
			1			As above, white, v. fine to fine, saturated			
			1						
3			1			As above, brown, damp			3
4		25	1	0					4
			1/12			Brown and white, v. fine to coarse ash, small pocket of grease (?), (fill)			
5									5
			1/12						
6		25		0					6
			wh/24			Brown and white, v. fine to fine ash, loose, saturated, (fill)			
7									7
8		<25		0		As above, v. fine to coarse			8
			wh/24						
9									9
10		<25		0					10
			wh/24			As above, brown, fine to coarse, wet to saturated			
11					SM004TB06-1012				11
12		100		0					12
			5			Black-gray clay, stiff, med. plasticity, damp, (CL)			
13			6		SM004TB06-1214				13
			6						
14		50	8	0		Bottom of boring 14 ft			14

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 004
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Split Spoon
LOGGED BY B. Squire

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A
NORTHING 1072.64768
EASTING -3146.90623

BORING SM004-TB05
G.S. ELEV. 625.470
CASING ELEV. N/A
START DATE 10/30/96
FINISH DATE 10/30/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1						Brown v. fine sandy clay, soft, nonplastic to low plasticity, damp, (fill)			1
						TDI residue, loose, wet to saturated, (fill)		Ground too soft for drill rig; split-spoons pushed by hand	
2		<25		0					2
3									3
4		<25		0					4
5					SM004TB05-0406	Brown and white ash, loose, saturated, (fill)			5
6		100		0		Gray-black clay, stiff, med. plasticity, damp (CL)			6
					SM004TB05-0607	Gray-brown v. fine sandy clay/silt, black mottles, stiff, nonplastic, damp, (CL/ML)			
7		50		0		Bottom of boring 7 ft			7

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

IT CORPORATION

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Microseeps
DRILLING METHOD Geoprobe
LOGGED BY G. Werkman

WATER LEVELS RELATIVE TO G.SURFACE
DURING DRILLING (ft-bgs) N/A
WELL LEVEL N/A

EASTING 1116.11
NORTHING -2874.87

BORING NO. SM005-TB11A
G.S. ELEV. 642.16
CASING ELEV. N/A
START DATE 11/9/99
FINISH DATE 11/9/99

DEPTH	SAMPLE	RECOVERY (feet)	ANALYTICAL SAMPLE ID	HNu (ppm)	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			SM005TB11-0001		Crushed commercial LIMESTONE			
					Dk. brown, gravelly, clayey, SILT, some sand, dense, moist			
		3		0				
					Dk. brown, sandy, clayey, SILT, some gravel, dense, moist			
			SM005TB11-0305					
		1		0				
5					Bottom of boring 5 ft			5
10								10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. NS-Not surveyed
4. NE-Not encountered

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA to 5 ft. / Geoprobe
LOGGED BY G. Werkman

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A

NORTHING -2869.80332
EASTING 1095.92991

BORING SM005-TB11
G.S. ELEV. 641.420
CASING ELEV. N/A
START DATE 6/19/97
FINISH DATE 6/19/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0						Brown, fine to coarse SAND and fine to medium, angular GRAVEL, little clay (fill)			0
					SM005TB11-0001				
			0-1						
1									1
2									2
			1-3	0					
3									3
4					SM005TB11-0305				4
5			3-5	0					5
6									6
7		8				Refusal, concrete; Bottom of boring 7.5 ft			7

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 11.0
WELL LEVEL (ft-msl): N/A
NORTHING: -2582.40267
EASTING: 1049.82822

BORING: SM005-TB10
G.S. ELEV.: 640.876
CASING ELEV.: N/A
START DATE: 6/17/97
FINISH DATE: 6/17/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM005TB10-0001	Asphalt pavement			0
1			0-1			Dark brown, fine to coarse sandy SILT, fine to medium gravel damp, (fill)			1
2									2
3			1-3	50		Same as above			3
4					SM005TB10-0305				4
5			3-5	326					5
6					SM005TB10-0507	Dark brown, fine to coarse sandy SILT/CLAY, fine gravel (fill)			6
7						Dark brown, TDI with fine to coarse sandy SILT, damp (fill)			7
8									8
9		100		425		Brown, fine to coarse sandy CLAY (fill)			9
10						Dark brown to very dark gray, fine to coarse sandy SILT with fine gravel, trace black glass, organic matter and TDI, wet to saturated (fill)			10
11									11
12					SM005TB10-1113				12
13		50		426		Same as above, saturated grading to damp		Water at 13 ft	13
14									14
15									15
16									16
17		50		30.8					17
18					SM005TB10-1719	Brown, TDI residue (fill)			18
19						Dark gray, clayey SILT, tr fine sand (fill)			19
20						Brown, TDI residue, wet (fill)		Water at 19.3 ft	20
21		75		0.8		Dark gray, clayey SILT, wet (ML/CL)			21
						Bottom of boring 21 ft			

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 9.0
WELL LEVEL (ft-msl): N/A

NORTHING: -2732.02830
EASTING: 1056.11298

BORING: SM005-TB09
G.S. ELEV.: 640.429
CASING ELEV.: N/A
START DATE: 6/19/97
FINISH DATE: 6/19/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0						Asphalt pavement			0
1			0-1	10	SM005TB09-0001	Yellow-brown, fine to coarse sandy SILT, trace crushed stone fragments, TDI residue (fill)			1
2									2
3						Dark gray, fine to coarse sandy SILT, few TDI residue, trace crushed stone fragments and clay (fill)			3
4					SM005TB09-0305				4
5			3-5	12		TDI residue with dark brown, fine to coarse sandy silt, trace clay and decaying wood (fill)			5
6									6
7									7
8					SM005TB09-0709				8
9		75		32				Water at 9 ft.	9
10									10
11									11
12									12
13		75		0		Bottom of boring 13 ft			13

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 13.6
WELL LEVEL (ft-msl): N/A
NORTHING: -2800.57296
EASTING: 976.91773

BORING: SM005-TB08
G.S. ELEV.: 640.623
CASING ELEV.: N/A
START DATE: 6/18/97
FINISH DATE: 6/18/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0					SM005TB08-0001	Crushed stone aggregate (GP)			0
1–4		58		0		Yellow-brown, sandy SILT, few crushed stone, trace TDI and gravel (ML)			1–4
4					SM005TB08-0305				4
4–8		60		44		Gray sandy SILT, few crushed stone and clay, trace TDI and gravel (ML)			4–8
8–12		40		10	SM005TB08-1113	Same as above with pieces of decaying wood		SM05TB08-1113 collected from 11.6 to 13.6 ft.	8–12
12–16		80		49.7		Bottom of boring 16 ft		Water at 13.6	12–16

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 5.0
WELL LEVEL (ft-msl): N/A

NORTHING: -2891.07060
EASTING: 1050.46048

BORING: SM005-TB07
G.S. ELEV.: 632.927
CASING ELEV.: N/A
START DATE: 7/16/97
FINISH DATE: 7/16/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM005TB07-0001	Gray-brown gravelly SAND, few silt, fine to coarse gravel, fine to coarse sand, concrete and boulders, damp (SW)			1
2						Red-brown sandy GRAVEL, fine to coarse sand, fine to coarse gravel, few silt, trace clay, moist (GW)			2
3			1-3	0					3
4					SM005TB07-0305				4
5			3-5	0				Perched water at 5.0 ft-bgs.	5
6									6
7									7
8									8
9		30		0					9
10									10
11									11
12						Dark gray sandy CLAY, fine to coarse sand, little silt, trace fine gravel, saturated (CL)			12
13		55		0		No recovery			13
14									14
15									15
16									16
17		0				Bottom of boring 17 ft			17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA to 5 ft. / Geoprobe
LOGGED BY: G. Werkman

WATER LEVELS
DRILLING (ft-bgs): 10.1, 17.3
WELL LEVEL (ft-msl): N/A
NORTHING: -2811.78762
EASTING: 721.59473

BORING: SM005-TB06
G.S. ELEV.: 639.152
CASING ELEV.: N/A
START DATE: 6/19/97
FINISH DATE: 6/19/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM005TB06-0001	Brown, fine to coarse sandy SILT, with crushed stone aggregate, damp (ML)			1
2						Brown, fine to medium sandy SILT, few clay, damp (ML)			2
3			1-3						3
4					SM005TB06-0305				4
5			3-5	2.3					5
6									6
7									7
8									8
9		100		0		Same as above			9
10								Water at 10.1 ft.	10
11					SM005TB06-1012				11
12									12
13		93		0		Same as above			13
14									14
15									15
16					SM005TB06-1517				16
17		100		0		Bottom of boring 17 ft			17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 005
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: HSA >5 /Geoprobe >13 /HSA >32
LOGGED BY: G. Werkman/P. Torres

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: -2389.28379
EASTING: 715.25474

BORING: SM005-TB05
G.S. ELEV.: 649.287
CASING ELEV.: N/A
START DATE: 6/20/97
FINISH DATE: 6/20/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
17	X	5	7	0		Brown silty CLAY, stiff, damp, (CL)			17
18	X		7						18
19	X	50	13	0		Drilled interval			19
20	X		13			Brown silty CLAY, trace sand, stiff, damp, (CL)			20
21	X		5						21
22	X	80	9	0		As above, moist		Shelby tube pushed from 22 to 24 ft-bgs	22
23	X		13		SM005TB05-2224				23
24	X	80	21	40		as above			24
25	X		19						25
26	X	80	19	0		Dark brown, silty, clayey, SAND, moist, (SM)			26
27	X		3						27
28	X	70	5	0		As above			28
29	X		6		SM005TB05-2830				29
30	X	50	9	0		As above, trace gravel, wet			30
31	X		9						31
32	X	60	8	0		Bottom of boring 32 ft			32
			10						
			11						
			3						
			3						
			3						
			3						
			3						
			3						
			3						
			4						
			3						

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 005
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD HSA >5 /Geoprobe >13 /HSA >32
LOGGED BY G. Werkman/P. Torres

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A

NORTHING -2389.28379
EASTING 715.25474

BORING SM005-TB05
G.S. ELEV. 649.287
CASING ELEV. N/A
START DATE 6/20/97
FINISH DATE 6/20/97

DEPTH	GEOPROBE	RECOVERY (percent)	AUGER SAMP. DEPTH (FT.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			0-1		SM005TB05-0001	Yellow-brown, sandy SILT, damp (fill)			1
2									2
3						Brown, fine to coarse sandy SILT, trace fine gravel and clay, damp, (fill)		Shelby tube pushed from 3 to 5 ft-bgs	3
4					SM005TB05-0305				4
5			3-5	0		As above			5
6									6
7									7
8					SM005TB05-0709				8
9		80		42		As above			9
10									10
11		50		0					11
12						Black mixture of TDI residue and tar-like material, (fill)			12
13		50		0					13
14					SM005TB05-1315	Black TDI residue, wet, (fill)			14
15		5		0		Gray and black, TDI residue, dry to moist, (fill)		Water at 15 ft-bgs	15
16									16

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. Geoprobe samples marked with crossed boxes
4. Auger samples marked with depth intervals
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 004
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 29
WELL LEVEL (ft-msl): N/A

NORTHING: 1116.52202
EASTING: -2877.20242

BORING: SM004-TB04
G.S. ELEV.: 641.384
CASING ELEV.: N/A
START DATE: 7/3/97
FINISH DATE: 7/3/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
22			3 6 11			As above, brown-gray to red-brown, some organic matter			22
23		30	13 5			As above, wet			23
24			8 15		SM004TB04-2325				24
25		50	13 2			As above, moist			25
26			4 6						26
27		40	7 3			Red-brown, silty CLAY, trace sand, medium stiff, moist to damp (CL)			27
28			5 70						28
29		80	6 1			Red-brown, silty CLAY, some gravel, wet (CL)			29
30			2 3						30
31		70	3 1			Red-brown, silty, sandy CLAY, little gravel, wet (CL)			31
32			1 1						32
33		70	1 1			Red-brown to brown-gray, silty, sandy, CLAY, wet (CL)			33
34			1 2						34
35		80	6 1			Red-brown, sandy, silty, CLAY, wet (CL)			35
36			3 2						36
37		20	3 1			As above			37
38			1 1						38
39		30	2 1			As above			39
40			1 2						40
41		50	2			Bottom of boring 41 ft			41
42									42

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 004
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY P. Torres

WATER LEVELS
DRILLING (ft-bgs) 29
WELL LEVEL (ft-msl) N/A

NORTHING 1116.52202
EASTING -2877.20242

BORING SM004-TB04
G.S. ELEV. 641.384
CASING ELEV. N/A
START DATE 7/3/97
FINISH DATE 7/3/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1	X				SM004TB04-0001	Brown, silty, CLAY, some gravel, damp (fill)			1
2						Drilled interval			2
3									3
4	X		5 5 7		SM004TB04-0305	Brown, silty CLAY, some gravel, damp (fill)			4
5	X	50	40			Brown, silty CLAY with gravel, damp (fill)			5
6	X		3 2 3						6
7	X	10	1			Brown, silty, sandy CLAY, some fine to medium gravel, moist (fill)			7
8	X		1 3 3						8
9	X	10	2			Brown-gray, silty CLAY, some rock fragments, medium plasticity, moist (fill)			9
10	X		1 1 1						10
11	X	15	2			Brown-gray, silty CLAY, moist (fill)			11
12	X		2 1 3						12
13	X	15	5			Brown-gray, coarse SAND, moist (fill)			13
14	X		2 3 3			Dark brown, silty CLAY, some granular material, moist to wet (fill)			14
15	X	50	3			Black, fine granular material, red, silty material, light brown, fine grained sandy material (fill)			15
16	X		2 7 6			Brown-gray, silty CLAY, stiff, moist (CL)			16
17	X	10	6 7			As above, trace fine gravel			17
18	X		9 9						18
19	X	20	12			As above			19
20	X		2 4 8						20
21	X		11						21

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 004
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 21
WELL LEVEL (ft-msl): N/A
NORTHING:
EASTING:

BORING: SM004-TB03
G.S. ELEV.:
CASING ELEV.: N/A
START DATE: 7/8/97
FINISH DATE: 7/8/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			9		SM004TB03-1719				
19		70	6			Brown-gray to red-brown, silty CLAY, medium plasticity, moist (CL)			19
			1						
20			1						20
			3						
21		60	2			Brown, silty CLAY, 0.25 inch layer of black, carbonaceous material, medium plasticity, wet (CL)			21
			3						
22			4						22
			3						
23		50	5			Red-brown, silty CLAY, trace sand, black carbonaceous material, wet (CL)			23
			3						
24			4						24
			5						
25		50	5			As above			25
			3						
26			5						26
			4						
27		60	5			Red-brown, sandy, silty CLAY, wet (CL)			27
			6						
28			6						28
			5						
29		60	7			As above, some black carbonaceous material			29
			2						
30			3						30
			2						
31		50	3			Red-orange-brown, sandy, silty CLAY, wet (CL)			31
			2						
32			5						32
			3						
33		40	2			Red-brown, silty SAND, some red-brown, stiff, silty CLAY, wet (CL)			33
			8						
34			8						34
			10						
35		40	8			Bottom of boring 35 ft			35
36									36

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 004
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 21
WELL LEVEL (ft-msl): N/A
NORTHING:
EASTING:

BORING: SM004-TB03
G.S. ELEV.:
CASING ELEV.: N/A
START DATE: 7/8/97
FINISH DATE: 7/8/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1	X				SM004TB03-0001	Brown, silty, CLAY, some gravel, dry (fill)			1
2						Drilled interval			2
3	X		3			Brown, silty CLAY, some gravel, damp (fill)			3
4	X		3		SM004TB03-0305				4
5	X	5	5						5
6	X		2			Brown to red-brown, silty CLAY, moist (CL)			6
7	X	20	3						7
8	X		3			As above			8
9	X	20	5						9
10	X		7						10
11	X	20	7			As above, trace gravel			11
12	X		7						12
13	X	0	7						13
14	X		7						14
15	X	0	10			No recovery			15
16	X		12						16
17	X	80	13						17
18			2						18
			2						
			4			No recovery			
			4						
			6		SM004TB03-1719	Brown-gray, silty CLAY, slight plasticity, moist (CL)			
			7			Red-brown-gray, silty CLAY, little fine gravel, few carbonaceous material, (CL)			

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 004
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 5, 19, 25
WELL LEVEL (ft-msl): N/A
NORTHING: 979.78062
EASTING: -3085.33089

BORING: SM004-TB02
G.S. ELEV.: 636.615
CASING ELEV.: N/A
START DATE: 6/27/97
FINISH DATE: 6/30/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
23	X		2 3						23
			6			Green-gray, silty, SAND, damp (SW)			
24			7 3						24
25			2 5			As above, wet			25
26			4 2						26
27			5 2			As above			27
28			7 10						28
29			8 5			As above			29
30			5 8						30
31			8 2			As above			31
32			3 7						32
33			8 5			As above, tan-gray			33
34			5 6						34
35		60	7 2			As above, gray			35
36			2 3			Brown, sandy, silty, CLAY, wet (CL)			36
37		50	5 5			Green-gray grading to brown, silty, SAND, wet (SW)			37
38			7 8						38
39		40	8 3			Brown-gray, silty, sandy, GRAVEL, wet (GW)			39
40			15 17		SM004TB02-3941				40
41		30	35			As above			41
42						Bottom of boring 43 ft			42
43									43
44									44

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 004
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 5, 19, 25
WELL LEVEL (ft-msl): N/A
NORTHING: 979.78062
EASTING: -3085.33089

BORING: SM004-TB02
G.S. ELEV.: 636.615
CASING ELEV.: N/A
START DATE: 6/27/97
FINISH DATE: 6/30/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1	X				SM004TB02-0001	Brown, silty, CLAY, some gravel, damp (fill)			1
2						Drilled interval			2
3	X								3
4	X				SM004TB02-0305	Brown, silty, CLAY, some black silt, dry to damp (CL)			4
5	X		3						5
6	X		2			Brown, sandy, CLAY, little black mottles, wet (CL)			6
7	X	20	1						7
8	X		1			Light brown, silty SAND, wet (SM)			8
9	X		1						9
10	X		2			Dark brown, clayey, SILT, little black mottles, damp (ML/CL)			10
11	X		3						11
12	X		1			Dark brown, silty, CLAY, little black, angular mottles (CL/ML)			12
13	X		3						13
14	X		2		SM004TB02-1113	Dark brown, CLAY, little black, angular mottles, high plasticity, damp (CH)			14
15	X	80	3						15
16	X		2	>100					16
17	X		1			Black, SILT with little rock fragments, some dark brown, silty clay, damp (ML/CL)			17
18	X		1						18
19	X		2						19
20	X		2	>120		Dark brown, silty, CLAY, some black silt, damp (CL/ML)			20
21	X		4						21
22	X		6						22
			3						
			5	>100		Black grading to green-gray, SAND, damp (SW)			
			3						
			5		SM004TB02-1921	As above, green-gray, wet			
			6						
			8						
			3			As above, some silty clay			
			3						

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 004
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 23, 29
WELL LEVEL (ft-msl): N/A
NORTHING: 1065.80188
EASTING: -3230.78901

BORING: SM004-TB01
G.S. ELEV.: 630.531
CASING ELEV.: N/A
START DATE: 7/2/97
FINISH DATE: 7/2/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
18			3 6			As above			18
			7			Black, granular to flakey material, wet, noticible odor (fill)			
19		40	8	0					19
			2			Gray, silty, CLAY, moist, noticible odor (fill)			
20			2		SM004TB01-1921				20
			2						
21		30	2	140					21
			1			No recovery			
22			3						22
			4						
23		0	2						23
			5			Brown-gray and red-brown, silty, CLAY, wet (fill)			
24			7						24
			8						
25		10	15	15					25
			3			Black, flakey material, gravel, pink and gray silty material, red-brown clay, wet (fill)			
26			5		SM004TB01-2527				26
			7						
27		40	9	90					27
			3			Red-brown, silty, sandy, gravelly, CLAY with black granules, damp to moist, slight odor (CL)			
28			3		SM004TB01-2729				28
			5						
29		50	7	50					29
			6			Red-brown, silty, SAND, wet (SW)			
30			6		SM004TB01-2931				30
			8						
31		40	7	20		As above			31
			5						
32			5						32
			7						
33		40	9			Bottom of boring 33 ft			33
34									34

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 004
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 23, 29
WELL LEVEL (ft-msl): N/A
NORTHING: 1065.80188
EASTING: -3230.78901

BORING: SM004-TB01
G.S. ELEV.: 630.531
CASING ELEV.: N/A
START DATE: 7/2/97
FINISH DATE: 7/2/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1	X				SM004TB01-0001	Brown, silty, CLAY, some gravel, damp (fill)			1
2	X				SM004TB01-0002	Drilled interval			2
3	X		1						3
4	X		6		SM004TB01-0305	Red-brown, silty, CLAY, few rocks, damp (fill)			4
5	X	20	7						5
6	X		7			As above, brown-gray, trace rocks			6
7	X	70	3						7
8	X		3						8
9	X	80	2			Dark gray, silty, CLAY, moist (fill)			9
10	X		1						10
11	X	80	2			As above, trace rocks			11
12	X		2						12
13	X	50	3						13
14	X		7			Gray-brown, sandy, silty, CLAY with organic matter, moist (fill)			14
15	X	70	4						15
16	X		4						16
17	X	10	3						17
			6						
			7		SM004TB01-1315	Brown-gray, silty , CLAY with organic matter, trace light green, silty material, moist (fill)			
			7						
			5						
			5						
			1			Brown-gray, silty, CLAY, moist (fill)			
			2						
			3						
			3						

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 003
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A

NORTHING: 787.66948
EASTING: -3399.70914

BORING: SM003-TB02
G.S. ELEV.: 637.283
CASING ELEV.: N/A
START DATE: 6/24/97
FINISH DATE: 6/24/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1	X				SM003TB02-0001	Brown, SOIL with sand and gravel, dry (fill)			1
2						Drilled interval			2
3	X								3
4					SM003TB02-0305	Angular, coarse to fine, GRAVEL, little sand and silt (fill)			4
5	X		5			Dark brown, SOIL with gravel, some silty clay with red flakes, damp (fill)			5
6			10						6
			16						
7			18	0					7
			6			Dark brown, sandy, silty SOIL with gravel, wet (fill)			
8			2						8
			50						
9		5							9
			12			Dark brown, SOIL with coarse sand grain size pellets, wet to moist (fill)			
10			8						10
			7			Fabric with light tan material and gravel (fill)			
11			7	40					11
			7			Dark brown, silty CLAY and gray-brown CLAY (CL/ML) (fill)			
12			6						12
			4						
13		10	8	0		As above			13
			6						
14			50			Refusal; bottom of boring 14 ft			14

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 003
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A

NORTHING: 802.62892
EASTING: -3459.83484

BORING: SM003-TB01
G.S. ELEV.: 637.436
CASING ELEV.: N/A
START DATE: 6/24/97
FINISH DATE: 6/24/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1					SM003TB01-0001	Brown, angular gravel, some sand and silt, dense, dry (fill)			1
2						Drilled interval			2
3									3
4					SM003TB01-0305	Dark gray-brown, coarse grain sand size polycarbonate, some silt and gravel, moist (fill)			4
5									5
6					SM003TB01-0507	Dark gray, coarse sandy material with tan clay-like flakes, some rocks, damp (fill)			6
7		60		100					7
8					SM003TB01-0709	As above, piece of metal			8
9		60		50					9
10			6 6 10		SM003TB01-0911	Dark brown, clayey SILT, some rocks, damp (fill)			10
11		60	2						11
12			3 4 4		SM003TB01-1113	Dark brown, clayey SILT, pieces of plastic, metal, red substance, rocks (fill)			12
13		60	9	50		Bottom of boring 13 ft			13

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 002
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 15
WELL LEVEL (ft-msl): N/A
NORTHING:
EASTING:

BORING: SM002-TB03
G.S. ELEV.:
CASING ELEV.: N/A
START DATE: 7/2/97
FINISH DATE: 7/2/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
15		50	9 9						15
			3		SM002TB03-1517	Brown-gray to black, silty SAND, wet (SW)			
16			6 7						16
17		50	8 3			As above			17
			5		SM002TB03-1719				
18			7			Red-brown, silty, sandy CLAY, wet (CL)			18
19		50	9 2			Gray and brown, SAND, wet (SW)			19
20			7 9						20
21		40	9 5			Brown-gray, silty, SAND, wet (SW)			21
22			6 6						22
23		40	6 7			Brown-gray, SAND, few fine to medium gravel, wet (SW)			23
24			10 10						24
25		35	9 10			As above			25
26			9 6						26
27			9			Bottom of boring 27 ft			27
28									28

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 002
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY P. Torres

WATER LEVELS
DRILLING (ft-bgs) 15
WELL LEVEL (ft-msl) N/A
NORTHING
EASTING

BORING SM002-TB03
G.S. ELEV.
CASING ELEV. N/A
START DATE 7/2/97
FINISH DATE 7/2/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1					SM002TB03-0001	Brown, silty, sandy, CLAY, some gravel, damp (fill)			1
2						Drilled interval			2
3			3			Red-brown to brown-gray, silty, CLAY, damp (CL)			3
4			2		SM002TB03-0305				4
5			3						5
6			2			As above, brown-gray			6
7		40	2						7
8			3						8
9			5						9
10			6			As above, red-brown			10
11			7						11
12			9						12
13			9						13
14		40	9			As above, brown-gray, black stringers			14
			2						
			3						
			5						
		80	5			As above			
			2						
			5						
			5						
		50	5			As above			
			2						
			5						

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 002
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A

NORTHING: 853.97613
EASTING: -3085.37841

BORING: SM002-TB02
G.S. ELEV.: 649.451
CASING ELEV.: N/A
START DATE: 10/22/96
FINISH DATE: 11/4/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			37		SM02TB02-4749	Black tar-like material with small fibers, little gravel, soft, moist, (fill)			
49		100	50/4	334.1		Med. to coarse gravel, fine to coarse sand, little clay, med. dense to loose, (fill)			49
			47			Brown, silty sludge, v. soft, low to med. plasticity, saturated			
50			54						50
			35			Brown, fine to coarse gravel, some fine to coarse sand, dense, saturated, (GW)			
51		85	29		SM02TB02A-5052	Black-gray-brown, fine to coarse sand and fine to coarse gravel, little silt, med. dense to dense, wet to saturated (SW/GW)			51
			20						
52			21						52
			25						
53		75	14			Brown, fine to coarse sand and fine to coarse, well rnd gravel, dense, wet (SW/GW)			53
			16						
54			18		SM02TB02A-5355				54
			32						
55		100	30			Hydropunch groundwater sample			55
56									56
57									57
58									58
59					SM02TB02-5860				59
60						Bottom of boring 60 ft			60

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 002
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY B. Squire

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A
NORTHING 853.97613
EASTING -3085.37841

BORING SM002-TB02
G.S. ELEV. 649.451
CASING ELEV. N/A
START DATE 10/22/96
FINISH DATE 11/4/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
37		100	1 2 1			As above, with layers of yellow-brown silty sludge, soft to med. stiff, damp, (fill)			37
38			1 1						38
39		100	2 wr/24			As above, soft, moist, chemical odor, (fill)			39
40									40
41		100		13.3		As above, soft, wet grading to damp to moist, (fill)			41
42			1 1 1						42
43		75	1 1	23		As above, damp to moist			43
44			2 1						44
45		100	2 1	60.1					45
46			2 1						46
47		100	2 4	86.6	SM02TB02-4749	Brown clay, v. soft grading to med. stiff, saturated grading to moist/ damp, (fill)			47
48			16						48

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 002
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY B. Squire

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A
NORTHING 853.97613
EASTING -3085.37841

BORING SM002-TB02
G.S. ELEV. 649.451
CASING ELEV. N/A
START DATE 10/22/96
FINISH DATE 11/4/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			3		SM02TB02-2425				
25		100	4			Yellow-brown fine sand, med. dense, moist, (fill)			25
			3			Black, fine grain material, loose "soup", saturated			
26			4						26
			3						
27		75	3			Yellow-brown fine sand, med. dense, moist to wet, (fill)			27
			1			Red-brown v. fine sandy clay, soft to med. stiff, slightly sticky, med. plasticity, damp to moist, (fill)			
28			1						28
			1						
29		50	1			Red-brown grading to brown sludge, occ. bright red mottles, soft, med. plasticity, moist, (fill)			29
			1						
30			2						30
			1						
31		75	2			Brown sludge, v. soft, med. plasticity, moist, (fill)			31
			1						
32			1						32
			1						
33		50	2						33
			wr/24						
34									34
		100							
35			1			As above, soft to med. stiff, moist grading to damp, chemical odor, (fill)			35
36			1						36

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 002
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 853.97613
EASTING: -3085.37841

BORING: SM002-TB02
G.S. ELEV.: 649.451
CASING ELEV.: N/A
START DATE: 10/22/96
FINISH DATE: 11/4/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
13			10			No recovery			13
			11						
			10						
14		0	10						14
			3			Brown-black fine sandy clay, some fine gravel, thin layer of red material, glass, soft, med. plasticity, moist; Mid - orange-yellow material and fine sandy clay, little gravel, soft, moist; Btm - black ashen material, fine sand to med. gravel size, loose, damp, (fill)			
15			10						15
			5						
16		50	2	0					16
			2		SM02TB02-1618	Maroon and black iron oxide, fine sand to med. gravel size, loose to med. dense, saturated grading to wet, (fill)			
17			1						17
			2						
18		75	1	0					18
					SM02TB02-1820	Hydropunch perched water sample			
19									19
20									20
21			1			No recovery			21
			2						
22			1						22
23		0	2	0					23
			1			Maroon and black iron oxide, fine sand to med. gravel size, loose, saturated, (fill)			
24			1						24

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 002
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 853.97613
EASTING: -3085.37841

BORING: SM002-TB02
G.S. ELEV.: 649.451
CASING ELEV.: N/A
START DATE: 10/22/96
FINISH DATE: 11/4/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			10, 15, 17		SM02TB02-0002	Brown clay and fine sand, some rock fragments, stiff, low plasticity, damp to moist, (fill)			1
2		75	17	0		Black fine grain sludge and rock fragments, little well rounded gravel, bright red mottles, med. dense to dense, damp, (fill)			2
3			39, 32			Black fine to coarse grain sludge, some gravel, rock fragments, layer of slag, little clay, bright red mottles, med. dense, damp, (fill)			3
4		50	41, 19	0	SM02TB02-0305				4
5			5, 6			Brown clay, little v. fine sand, little gravel, (fill)			5
6		50	7, 8	0		Black, brown, green clay and sludge (stiff, damp) with orange- white-gray fine grained material, solid, dry, (fill)			6
7			1, 2			White grading to yellow grading to pink-gray fine to coarse grain granular material, loose, damp, (fill)			7
8		50	1, 2	0		Black clay sludge, med. stiff, damp, (fill)			8
9			10, 14			Top - Black-brown fine to coarse grain sludge, thin layer of bright red fine grain granular material; Mid - black v. fine grain sludge; Btm - brown clay and rock fragments, (fill)			9
10		75	10, 58	0					10
11			9, 11		SM02TB02-1012	Red and brown-black clay, little yellow fine sand, some med. to coarse gravel, med. stiff, moist, (fill)			11
12		75	13, 5	0					12

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 002
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 19, 51
WELL LEVEL (ft-msl): N/A
NORTHING: 925.62394
EASTING: -3138.85019

BORING: SM002-TB01
G.S. ELEV.: 650.118
CASING ELEV.: N/A
START DATE: 6/25/97
FINISH DATE: 6/26/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
41				20	SM002TB01-3941	As above, piece of wood			41
42					SM002TB01-4143				42
43				20		As above			43
44			1 1 2						44
45		90	1 2 3			As above			45
46			6			Light gray, gravelly, SAND, damp (fill)			46
47		90	7 2			Red-brown, CLAY, damp (CL)			47
48			1 2						48
49		90	3 5			As above			49
50			5 4			Black-gray, silty, SAND and GRAVEL, damp (SW)			50
51		90	5 5						51
52			5 20			As above, brown-gray			52
53		80	25			Gray-green, sandy, GRAVEL, wet (GW)			53
54									54
55			25			As above			55
56			32 50		SM002TB01-5557				56
57		20	29			Bottom of boring 57 ft			57
58									58
59									59
60									60

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 002
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY P. Torres

WATER LEVELS
DRILLING (ft-bgs) 19, 51
WELL LEVEL (ft-msl) N/A
NORTHING 925.62394
EASTING -3138.85019

BORING SM002-TB01
G.S. ELEV. 650.118
CASING ELEV. N/A
START DATE 6/25/97
FINISH DATE 6/26/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
21	X	25	1						21
			2			Red-brown silty material, shards of plastic, wet (fill)			
22			7						22
			25						
23		25	50			Dark brown-red, silty material, some silty clay and gravel, pieces of plastic sheeting, wet (fill)			23
			1						
24			1						24
			1						
25		30	7			Dark brown-red, silty material, some gravel, pieces of synthetic woven material, wet (fill)			25
			4						
26			4						26
			4						
27			4			Red-brown, SILT and SAND, some gravel, wet (fill)			27
28									28
29		30							29
			1/12			Layered brown-black and brown, SLUDGE, moist to wet (fill)			
30					SM002TB01-2931				30
			1/12						
31		80		100					31
			5			Brown, SLUDGE, some brown-black, silty material with red flakes and yellow-brown streaks, angular shard material, moist to wet (fill)			
32			2		SM002TB01-3133				32
			1						
33		70	1	40					33
			5			Layered brown-black and brown, SLUDGE, wet (fill)			
34			1						34
			1						
35		90	2	20		As above			35
			3						
36			1		SM002TB01-3537				36
			1						
37			3	>100		As above, pieces of black, angular, shard material			37
			2						
38			3		SM002TB01-3739				38
			2						
39		90	2	>100		As above			39
					SM002TB01-3941				
40									40

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 002
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 19, 51
WELL LEVEL (ft-msl): N/A
NORTHING: 925.62394
EASTING: -3138.85019

BORING: SM002-TB01
G.S. ELEV.: 650.118
CASING ELEV.: N/A
START DATE: 6/25/97
FINISH DATE: 6/26/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1	X				SM002TB01-0001	Brown, sandy, SILT, dry (fill)			1
2						Drilled interval			2
3	X		5						3
4	X		5		SM002TB01-0305	Dark brown, sandy SILT, some rocks, pieces of plastic, dry to damp (fill)			4
5	X		6						5
			12						
6	X		6			Dark brown, IRON OXIDE, brown silty clay with yellow and red flakes, white sandy material with some gravel, dry to damp (fill)			6
7	X	40	7						7
			5						
8	X		6			Brown, sandy SILT with gravel, sticky, white material with fine fibers, dry to damp (fill)			8
9	X	30							9
10	X		5			Light gray, gravelly, SAND, dry (fill)			10
			4						
11	X	30	10						11
			5			Dark brown, fine silty material, some yellow foam-like material, dry to damp (fill)			
12	X		3						12
			2						
13	X	30	2						13
			1						
14	X		1		SM002TB01-1315	Dark brown, IRON OXIDE, gray-brown, silty clay with yellow-gray, hard, flakey material with some gravel, damp (fill)			14
			3						
15	X	40	6						15
			1			Brown-black, IRON OXIDE, moist (fill)			
16	X		5						16
			11						
17	X	95	16			As above, moist to wet			17
			13						
18	X		11						18
			9						
19	X	90	10						19
			7						
20	X		1			Dark brown, IRON OXIDE, some silty material with red flakes, wet (fill)			20
			1/12						

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 001
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY B. Squire

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A
NORTHING 964.59121
EASTING -2993.39397

BORING SM001-TB07
G.S. ELEV. 634.684
CASING ELEV. N/A
START DATE 11/1/96
FINISH DATE 11/1/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
14		100	14, 18, 7, 10			As above, grading to red-brown, med. stiff to stiff, sl. plasticity, damp			14
15									15
16		100	8, 9, 11, 10			Red-brown v. fine sand and silt, med. dense, moist, (SM/ML)			16
17						As above, moist to wet			17
18		100	9, 8, 2						18
19					SM001TB07-1820	As above, moist with wet zones			19
20		100	4, 5, 4, 2						20
21						Red-brown v. fine to fine sand, little silt, med. dense to loose, saturated, (SM)			21
22		100	4, 4, 5						22
23						Hydropunch groundwater sample			23
24					SM001TB07-2226				24
25									25
26						Bottom of boring 26 ft			26

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 964.59121
EASTING: -2993.39397

BORING: SM001-TB07
G.S. ELEV.: 634.684
CASING ELEV.: N/A
START DATE: 11/1/96
FINISH DATE: 11/1/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			8			Red-brown v. fine sandy clay, some rock fragments, little well rounded, fine gravel, stiff, nonplastic, damp, (fill)			1
			12		SM001TB07-0002				
			11						
2		25	13	0					2
			23						
3			20			As above, brown, few pieces of white ceramic, occ. cinders, (fill)			3
			21						
4		50	19	0	SM001TB07-0305				4
			6			Brown v. fine sandy clay, rock fragments, pieces of brick, cinders, stiff, nonplastic, damp, (fill)			
5			5						5
			6						
6		25	9	0		Brown clay, little v. fine sand, little white ceramics, soft, med. plasticity, damp, (fill)			6
			3						
7			3			Red-brown v. fine sandy clay, stiff, nonplastic, damp, (CL)			7
			7						
8		25	12	0				OVM not functioning (wet)	8
			7						
9			9			As above, slight plasticity			9
			11						
10		100	13						10
			5						
11			7			As above, grading to gray-brown, some black organic mottles, med. stiff to soft, med. to high plasticity, damp			11
			9						
12		100	11						12
			10						
13			12						13

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 812.24116
EASTING: -3253.05424

BORING: SM001-TB06
G.S. ELEV.: 653.486
CASING ELEV.: N/A
START DATE: 10/29/96
FINISH DATE: 10/31/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
52	X	100	12 24 23	0		Black v. fine to coarse sand, fine to med. well rounded gravel, loose to med. dense, moist, (SW)			52
53	X		37 48						53
54	X	50	66 37	0					54
55	X	100	70	0		Drilled interval			55
56	X		31		SM001TB06-5658	Fine to coarse sand and fine to med. well rounded gravel, dense, wet to saturated, (SW)			56
57	X		34 26						57
58	X	75	17 15	0		As above, gray-black grading to red-brown, little silt, med. dense, saturated			58
59	X		17 18						59
60	X	100	11		SM001TB06-6065	Hydropunch groundwater sample			60
61									61
62									62
63									63
64									64
65						Bottom of boring 65 ft			65
66									66
67									67
68									68

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A

NORTHING: 812.24116
EASTING: -3253.05424

BORING: SM001-TB06
G.S. ELEV.: 653.486
CASING ELEV.: N/A
START DATE: 10/29/96
FINISH DATE: 10/31/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
35			4			Red-brown v. fine sandy clay, occ. well rounded gravel, little gray mottles, piece of latex glove, med. stiff, med. to high plasticity, (fill)			35
			6						
			10						
36		100	14	0					36
			9						
37			15						37
			15						
38		100	15	0					38
			4						
39			6			As above, damp to moist			39
			10						
40		100	10	0					40
			4						
41			6			As above, damp with saturated zones			41
			10						
42		100	12	0					42
			7						
43			6		SM001TB06-4244	As above grading to v. fine sand and clay, v. soft grading to med. stiff, non grading to high grading to low plasticity, saturated grading to damp			43
			8						
44		100	10	0					44
			5						
45			7			Red-brown v. fine to fine sand and clay, grading to red-brown v. fine to fine sand, some clay, med. dense, moist to wet, (CL/SC)			45
			7						
46		100	8	0					46
			6						
47			8						47
			10						
48		100	11	0		Gray-black v. fine to fine sand, little clay, med. dense, moist, (SC)			48
			3						
49			6						49
			7						
50		75	7	0		Gray-brown v. fine to fine sand, loose, moist to wet, (SP)			50
			5						
51			7						51

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 812.24116
EASTING: -3253.05424

BORING: SM001-TB06
G.S. ELEV.: 653.486
CASING ELEV.: N/A
START DATE: 10/29/96
FINISH DATE: 10/31/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
18	X	<25	10 13 5			As above, little green-brown clay, occ. rock fragments, damp to dry Black and red iron oxide, soft, moist, (fill)			18
19	X		7						19
20	X	25	8 10	0		Brown clay and well rounded gravel, little fine sand, loose, damp, (fill)			20
21	X		wr/6 2 2		SM001TB06-2022	Brown sandy clay, few rock fragments, well rounded gravel, occ. black mottles, soft, sl. plasticity, moist, (fill)			21
22	X	75	7	>1999					22
23	X					Black iron oxide, occ. rock fragments, loose, saturated, (fill)			23
24	X	50		82.4		Rock fragments, fine sand, some brown clay, wire debris, med. dense to dense, damp, (fill)			24
25						Hydropunch perched water sample			25
26									26
27					SM001TB06-2430				27
28									28
29									29
30	X		9			V. fine to fine sand, few red inclusions, loose, saturated, (fill)			30
31	X		7 10			Gray-brown and black clay, little v. fine sand, soft to med. dense, med. plasticity, damp, (fill)			31
32	X	75	10	3.6					32
33	X		10 13 14						33
34	X	75	14	0					34

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 812.24116
EASTING: -3253.05424

BORING: SM001-TB06
G.S. ELEV.: 653.486
CASING ELEV.: N/A
START DATE: 10/29/96
FINISH DATE: 10/31/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			5 6 11		SM001TB06-0002	Brown clay soil, sandstone rock fragments, organic matter, little sand wood, stiff, nonplastic, damp, (fill)			1
2		50	15 13	0		Granular iron oxide, med. dense to loose, damp, (fill)			2
3			17 18			Black-red grading to black iron oxide, occ sandstone rock fragments, med. dense, damp, (fill)			3
4		50	20	0	SM001TB06-0305				4
5			11 12						5
6		50	11 9	0					6
7			13 15						7
8		50	5 6	0					8
9			2 3			As above, black-brown, med. dense to loose, damp grading to moist			9
10		50	2 10	0					10
11			14 10			Gray-brown sand, gravel, rock fragments, loose to med. dense, damp, (fill)			11
12		75	7 10	0		Black clay/silt, some whiteand tan rock fragments, stiff, nonplastic, damp, (fill)			12
13			10 17			Red and black iron oxide, loose, damp, (fill)			13
14		50	44 49	0		Gravel, rock fragments, dense, dry to damp, (fill)			14
15			41 19			Red iron oxide, few yellow mottles, med. dense, damp, (fill)			15
16		50	13 9	0		Black iron oxide, soft/loose, moist grading to dry, (fill)			16
17			7						17

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 001
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY P. Torres

WATER LEVELS
DRILLING (ft-bgs) 17, 35
WELL LEVEL (ft-msl) N/A

NORTHING 1047.59996
EASTING -3325.86187

BORING SM001-TB05
G.S. ELEV. 635.743
CASING ELEV. N/A
START DATE 6/30/97
FINISH DATE 7/1/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
21			3, 5						21
22			2, 3, 6			Red-brown, silty, CLAY, moist (CL)			22
23		5	8, 6			Brown, silty, CLAY with some black organic matter, stiff, moist (CL)			23
24			8, 7						24
25		20	9, 8			Red-brown, silty, CLAY, moist (CL)			25
26			7, 6						26
27		10	5, 5			As above			27
28			5, 7						28
29		50	7, 3			As above			29
30			5, 6						30
31		15	7, 3			As above, gray-brown			31
32			5, 5						32
33		50	6, 8			Red-brown, sandy, CLAY, damp (CL)			33
34			10, 9						34
35		30	11, 8			Red-brown, SAND, wet (SW)			35
36			7, 10						36
37		20	11, 13			As above, some rocks			37
38			40, 39		SM001TB05-3739				38
39		40	17			Bottom of boring 39 ft			39
40									40

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 17, 35
WELL LEVEL (ft-msl): N/A
NORTHING: 1047.59996
EASTING: -3325.86187

BORING: SM001-TB05
G.S. ELEV.: 635.743
CASING ELEV.: N/A
START DATE: 6/30/97
FINISH DATE: 7/1/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0–1	X				SM001TB05-0001	Brown, silty, sandy, CLAY, (fill)			1
1–2						Drilled interval			2
2–3									3
3–4	X		2		SM001TB05-0305	Dark brown, silty, sandy, CLAY, some fine to medium gravel (fill)			4
4–5	X		1 1						5
5–6	X		3 2			Gray-brown, silty, sandy, CLAY, moist (fill)			6
6–7	X		2 3						7
7–8	X		5 2			Red-brown, silty, CLAY, some gravel (fill)			8
8–9	X		2 1						9
9–10	X	10	2 2			No recovery			10
10–11	X		2 2						11
11–12	X	0	2 3			Red-green-brown, silty, CLAY, some gravel, damp (fill)			12
12–13	X		50/2						13
13–14	X	5	6 6			As above, gray-red-brown			14
14–15	X		5 3						15
15–16	X	5	8 15			Brown-gray-red, gravelly, CLAY, damp (fill)			16
16–17	X								17
17–18	X	5				Black, CLAY with brown fibrous material, soft, sticky, wet (fill)			18
18–19	X								19
19–20	X		6 5			Black pellets, gray SILT, wet (fill)			20

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 690.45043
EASTING: -3298.01613

BORING: SM001-TB04
G.S. ELEV.: 633.707
CASING ELEV.: N/A
START DATE: 6/24/97
FINISH DATE: 6/24/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1	X				SM001TB04-0001	Brown, soil with sand and gravel, dry to damp (CL/ML)			1
2						Drilled interval			2
3			4						3
4	X		4		SM001TB04-0305	Red-brown, CLAY, moist (CL)			4
5		10	3						5
6			4			Red-brown, silty, CLAY, moist (CL)			6
7	X	90	5						7
8			3			As above			8
9			3						9
10	X	95	1		SM001TB04-0911	As above, grading to gray-brown to green-gray, black stringers			10
11			3						11
12			2			As above, green-gray-brown			12
13	X	90	3						13
14			3			As above			14
15			1						15
			1						
			2						
		90	2			Bottom of boring 15 ft			

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 17, 29
WELL LEVEL (ft-msl): N/A
NORTHING: 884.29974
EASTING: -3392.48955

BORING: SM001-TB03
G.S. ELEV.: 653.601
CASING ELEV.: N/A
START DATE: 6/25/97
FINISH DATE: 6/25/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
39		0	5 5			Dark brown, gravelly SAND, wet (fill)			39
40			8 7 4			Brown, sandy, silty, CLAY, damp (fill)			40
41		10	3 5						41
42			4 8						42
43		40	13 4			Brown-gray, sandy, GRAVEL, some polycarbonate material, wet (fill)			43
44			32 50/2						44
45		5	18			Polycarbonate and glass strands, wet (fill)			45
46			5 5						46
47		5	4 6			Gray-green-brown, sandy, silty, CLAY, damp (fill)			47
48			7 8						48
49		90	10 7			Red-brown, silty, CLAY, piece of sheet metal (fill)			49
50			8 10			No recovery			50
51		0	11 4			Gray-brown, sandy, silty, CLAY, with red-brown stringers, damp (CL)			51
52			6 7						52
53		80	9 3			Red-brown, sandy, CLAY, damp (CL)			53
54			4 6		SM001TB03-5355				54
55			8			Bottom of boring 55 ft			55
56									56
57									57

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 17, 29
WELL LEVEL (ft-msl): N/A
NORTHING: 884.29974
EASTING: -3392.48955

BORING: SM001-TB03
G.S. ELEV.: 653.601
CASING ELEV.: N/A
START DATE: 6/25/97
FINISH DATE: 6/25/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
20			25			Brown-gray, IRON OXIDE, some concrete, orange flakes, white flakes, saturated, (fill)			20
			17						
			11						
21		15	15						21
			6			Mixture of concrete, copper wire, gravel and rocks, blue-green silty material, brown-gray, densely-packed material, wet to damp (fill)			
22			17						22
			19						
23		40	17						23
			1			Mixture of green-gray material, brown-tan material, yellow material, dark brown-red silty material, pieces of plastic, damp (fill)			
24			8						24
			12						
25			16						25
			12			Dark brown, IRON OXIDE with red-orange flakes, foam, plastic sheeting, wet (fill)			
26			12						26
			3						
27		5	1			No recovery			27
			2						
28			2						28
			6						
29		0	5						29
			8			Red-brown, SILT and SAND, some rocks, damp to wet (fill)			
30			7		SM001TB03-2931				30
			3						
31			2	>20		Dark brown, sandy, SILT, some red-brown clay, little gravel, piece of fabric, wet (fill)			31
			2						
32			3						32
			5						
33		5	7			Brown-gray, sandy, silty, CLAY, red flakes, short, thin fibers, white granules, plastic-jacketed wire, wet (fill)			33
			1						
34			6						34
			11						
35		10	13						35
			1			Mixture of rocks, yellow, red, and brown, silty CLAY, wood, fibrous material, wet (fill)			
36			5		SM001TB03-3537				36
			8						
37		10	25						37
			3			No recovery			
38			5						38

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): 17, 29
WELL LEVEL (ft-msl): N/A
NORTHING: 884.29974
EASTING: -3392.48955

BORING: SM001-TB03
G.S. ELEV.: 653.601
CASING ELEV.: N/A
START DATE: 6/25/97
FINISH DATE: 6/25/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1	X				SM001TB03-0001	Brown, sandy, clayey SILT, some gravel, dry (fill)			1
2						Drilled interval			2
3	X		13						3
4			10		SM001TB03-0305	Dark gray, IRON OXIDE, fine to coarse grain sand size, some clay, dry (fill)			4
5		25	6						5
6			3			Dark gray, IRON OXIDE with some fine metal strands and rocks (fill)			6
7			2						7
8			2			As above, fine to coarse grain grading to v. fine grain			8
9			1						9
10			3						10
11		70	2			As above, v. fine grain			11
12			5						12
13			7						13
14			7			Brown-black material, v. fine sand/silt size, some red flake material, yellow material, some light brown clay, moist (fill)			14
15		80	17						15
16			18						16
17			27			Mixture of yellow material, red material, flakes, black, fine grain material, tan clay-like material, metal screen, moist (fill)			17
18			6						18
19			7						19
			27						
		20	16						
			3		SM001TB03-1517	Light brown, SAND, dark brown, fine grain material, foam, moist to damp (fill)			
			2						
			2						
		50	1						
			1			Dark brown to black, IRON OXIDE, dark brown to red-brown, v. fine sand/silt size material, foam, wet (fill)			
			1						
			9						
		70	10						

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 001
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY B. Squire

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A
NORTHING 957.32712
EASTING -3536.38786

BORING SM001-TB02
G.S. ELEV. 652.242
CASING ELEV. N/A
START DATE 10/25/96
FINISH DATE 10/28/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			10						
43		100	11	0		Black granular material, yellow fibers (insulation?), wood, loose, moist, (fill)			43
			8						
44			14			Gray-black clay and rock fragments, few insulation fibers, occ. pieces of fencing wire, v. soft, nonplastic, saturated, (fill)			44
			15						
45		75	32	0		Green-gray and rust clay, some rock fragments, little plastic debris, stiff, damp, (fill)			45
			5						
46			8		SM001TB02-4547	Red-brown clay, stiff, med. to high plasticity, damp to moist, pocket of black fine sand with organic matter, (CL)			46
			12						
47		100	14	0					47
			7			Gray-brown, v. fine to fine sand and silt, loose to med. dense, wet, (SM)			
48			8		SM001TB02A-4749				48
			10						
49		100	15	0					49
			9			Green-brown grading to red-brown, v. fine to fine sand, loose to med. dense, saturated (SP)			
50			12						50
			11						
51		100	15	0					51
						Hydropunch groundwater sample			
52									52
53					SM001TB02A-5155				53
54									54
						Bottom of boring 55 ft			
55									55
56									56

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 001
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY B. Squire

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A

NORTHING 957.32712
EASTING -3536.38786

BORING SM001-TB02
G.S. ELEV. 652.242
CASING ELEV. N/A
START DATE 10/25/96
FINISH DATE 10/28/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
29						Hydropunch perched water sample			29
30									30
31									31
32					SM001TB02-3133				32
33			12			Rock fragments, clay/silt, debris, loose, saturated, (fill)			33
34			7						34
			9						
35		<25	14	0		Trash and debris, loose, saturated, (fill)			35
			7						
36			9						36
			8			Brown clay, soft, med. plasticity, moist to wet, and layered white synthetic woven material, (fill)			
37		75	9	0					37
			11			Blue-green-black-brown clay and rock fragments, soft, med. to low plasticity, moist to wet, (fill)			
38			10						38
			5			As above with plastic jacketed electrical wire, (fill)			
39		75	13	0					39
			8			Gray-black clay and sandstone rock fragemnts, little fine sand, loose, saturated, (fill)			
40			12						40
			9						
41		<25	10	0					41
			9			Gray-brown clay and rock fragments, little wire debris, v. soft, med. plasticity, wet to saturated, (fill)			
42			10						42

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS

BORING LOG

PROJECT NAME Bayer Corp., New Martinsville, WV
BORING LOCATION SWMU 001
DRILLING FIRM Pennsylvania Drilling Co.
DRILLING METHOD Hollow Stem Auger/Split Spoon
LOGGED BY B. Squire

WATER LEVELS
DRILLING (ft-bgs) N/A
WELL LEVEL (ft-msl) N/A

NORTHING 957.32712
EASTING -3536.38786

BORING SM001-TB02
G.S. ELEV. 652.242
CASING ELEV. N/A
START DATE 10/25/96
FINISH DATE 10/28/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
			1			Black grading to orange-red granular material, loose/soft, moist to wet, (fill)			
15			1						15
			15			Green-gray clay, soft, med. plasticity, moist, (fill)			
16		50	24	0					16
			6			Clay as above, v. soft grading to med. dense, moist to wet, pieces of sheet metal, some sandstone rock fragments, (fill)			
17			13						17
			16						
18		50	19	0					18
			10			Brown clay and sandstone rock fragments med. stiff, low plasticity, damp to moist, (fill)			
19			8						19
			7						
20		75	8	0					20
			15						
21			13						21
			15						
22		50	15	0					22
			13			Mixed clay, sand, gravel, rock fragments, soft to med. stiff, nonplastic, moist, (fill)			
23			17						23
			19						
24		<25	24	0					24
			9			Brown-black clay, some fine gravel, rock fragments, debris (wood, paper), moist, (fill)			
25			12		SM001TB02-2426				25
			13						
26		25	15	0					26
			13			Trash and debris (wood, paper, plastic), rock fragments, loose, saturated, (fill)	+ +		
27			14				+ +		27
			15				+ +		
28		25	17	0			+ +		28

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Squire

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 957.32712
EASTING: -3536.38786

BORING: SM001-TB02
G.S. ELEV.: 652.242
CASING ELEV.: N/A
START DATE: 10/25/96
FINISH DATE: 10/28/96

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0			3			Brown clay soil, some sand, organic material, damp			0
1			5		SM001TB02-0002	Black powdery material, soft to med. stiff, damp, (fill)			1
			11						
2		50	17	9.3					2
			5			Red-brown-black iron oxide, fine to coarse grain sand size, loose to med. dense, damp, (fill)			
3			5						3
			6						
4		50	6	0	SM001TB02-0305				4
			2			As above with maroon pellets, little clay, damp to moist, (fill)			
5			2						5
			2						
6		100	2	2.3					6
			1						
7			2						7
			2						
8		75	1	5.8					8
			2						
9			3						9
			5			Brown clay, fine sand, some fine gravel, few rock fragments (fill)			
10		50	6	0					10
			2			Black granular material and light brown clay, med. stiff, sl. plasticity, damp, (fill)			
11			3						11
			3						
12		<25	2	0					12
			1		SM001TB02-1213	Black granular material, little red-orange paint-like substance, loose to med. dense, moist, OVM hit in black granular material, (fill)			
13			1						13
			1						
14		75	1	12.8					14

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING: 772.53130
EASTING: -3509.49878

BORING: SM001-TB01
G.S. ELEV.: 636.209
CASING ELEV.: N/A
START DATE: 6/23/97
FINISH DATE: 6/23/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
16		0	2			No description available			16
			3						
			3						
17			3		SM001TB01-1618				17
			5						
18		20	7						18
			3						
19			4						19
			4						
20		5	3	50					20
			6						
21			28						21
			5						
22		5	1						22
			2						
23			4						23
			4						
24		5	5						24
			4						
25			2						25
			2						
26		0	3						26
			3						
27			3						27
			3						
28			3						28
			4						
29			3		SM001TB01-2830				29
			3						
30		33	4			Bottom of boring 30 ft			30

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: SWMU 001
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: P. Torres

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A

NORTHING: 772.53130
EASTING: -3509.49878

BORING: SM001-TB01
G.S. ELEV.: 636.209
CASING ELEV.: N/A
START DATE: 6/23/97
FINISH DATE: 6/23/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0			5			No description available			0
1			9		SM001TB01-0002				1
			5						
2			3						2
			3						
3			3						3
			3						
4		5	5		SM001TB01-0305				4
5									5
		5	2						
6			5						6
			4						
7			3						7
		5	5						
8			1						8
			4						
9			4						9
		5	5	50					
10			5						10
			5						
11			4						11
		0	4						
12			3						12
			3						
13			2						13
		0	3						
14			3						14
			3						
15									15

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: Background
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Brown

WATER LEVELS
DRILLING (ft-bgs): 16
WELL LEVEL (ft-msl): N/A
NORTHING:
EASTING:

BORING: BG001-TB05
G.S. ELEV.:
CASING ELEV.: N/A
START DATE: 11/20/97
FINISH DATE: 11/20/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
1			6		BG001TB05-0001	Dark brown, CLAY, sticky, (fill)			1
			4						
			5						
2		70	9	0		Red-brown, SAND with light gray gravel (fill)			2
			8						
3			20						3
			16						
4		25	10	0	BG001TB05-0305	No recovery			4
			2						
5			6						5
			8						
6			12			Brown, silty CLAY with organic matter, medium plasticity, damp, (CL)			6
			3						
7			4						7
			6						
8		60	7	0		As above			8
			8						
9			10						9
			13						
10		40	12	0					10
			6			Brown, silty CLAY with gray, subangular gravel, medium plasticity, damp (CL)			
11			8						11
			10			Brown, silty CLAY, gray mottles, stiff, low plasticity, damp, (CL)			
12		90	12	0					12
			9			As above			
13			12						13
			13						
14		80	14	0		As above			14
			18						
15			13		BG001TB05-1416	Red-brown, silty SAND, moist (SM)			15
			14						
16		80	10	0					16
			9			Red-brown, medium to fine SAND, few silt, loose, wet (SP)			
17			3						17
			3						
18		60	5	0		Bottom of boring 18 ft			18

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: Background
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Brown

WATER LEVELS
DRILLING (ft-bgs): 10.8
WELL LEVEL (ft-msl): N/A
NORTHING:
EASTING:

BORING: BG001-TB04
G.S. ELEV.:
CASING ELEV.: N/A
START DATE: 11/20/97
FINISH DATE: 11/20/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0–1			4, 5		BG001TB04-0001	Dark brown, silty CLAY with organic matter, moist (CL)			1
1–2		45	7, 8	0					2
2–3			5, 7			Dark brown, silty CLAY with subrounded, sandstone gravel (CL)			3
3–4		55	13, 14	0	BG001TB04-0305	As above, yellow-brown			4
4–5			19, 15						5
5–6		25	14, 7						6
6–7			10, 7			Dark brown, silty CLAY, dark gray mottles, stiff, low plasticity (CL)			7
7–8		35	8, 8	0					8
8–9			10, 7			Red-brown to yellow-brown, silty SAND with sandstone fragments, moist to wet (SM)			9
9–10		50	9, 8	0					10
10–11			10, 9			Yellow-brown to orange-brown, v. fine sandy SILT with sandstone fragments, moist grading to wet (ML)			11
11–12		45	9, 8	0	BG001TB04-1012	Bottom of boring 12 ft			12

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: Background
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Brown

WATER LEVELS
DRILLING (ft-bgs): N/A
WELL LEVEL (ft-msl): N/A
NORTHING:
EASTING:

BORING: BG001-TB03
G.S. ELEV.:
CASING ELEV.: N/A
START DATE: 11/21/97
FINISH DATE: 11/21/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0			3		BG001TB03-0001	Brown, silty CLAY with organic matter (CL)			0
			3						
1			6						1
		50	9	0					
2						Red-brown, silty clay, light gray mottles, sandstone fragments (CL)			2
			15						
						Gray, CLAY, stiff, dry (CL)			
			16						
3									3
			21						
		55	39	0	BG001TB03-0305	As above			
4									4
			20						
			26						
5									5
			38						
		55	50/3	0		Refusal; bottom of boring 6 ft			
6									6

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: Background
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Brown

WATER LEVELS
DRILLING (ft-bgs): 15.9
WELL LEVEL (ft-msl): N/A
NORTHING:
EASTING:

BORING: BG001-TB02
G.S. ELEV.:
CASING ELEV.: N/A
START DATE: 11/20/97
FINISH DATE: 11/20/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0			5		BG001TB02-0001	Yellow-brown, silty CLAY with organic matter, sticky, moist (CL)			0
1			5						1
			5						
2		45	7	0		Brown to orange-brown, silty CLAY, gray mottles, stiff, moist (CL)			2
			4						
3			5						3
			6						
4		55	9	0	BG001TB02-0305	As above			4
			10						
5			15			Yellow-orange-brown, fine to medium SAND with sandstone fragments (SW)			5
			14						
6		75	15			As above, yellow-brown to red-brown			6
			9						
7			11						7
			16						
8		100	16	0		As above			8
			14						
9			17						9
			17						
10		45	17	0		As above, some mica flakes			10
			13						
11			14						11
			21						
12		100	25	0		As above			12
			9						
13			11						13
			13						
14		50	14	0		As above			14
			13						
15			17		BG001TB02-1416				15
			13						
16		75	17	0		Bottom of boring 16 ft			16

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

ICF KAISER ENGINEERS — BORING LOG

PROJECT NAME: Bayer Corp., New Martinsville, WV
BORING LOCATION: Background
DRILLING FIRM: Pennsylvania Drilling Co.
DRILLING METHOD: Hollow Stem Auger/Split Spoon
LOGGED BY: B. Brown

WATER LEVELS
DRILLING (ft-bgs): 8
WELL LEVEL (ft-msl): N/A
NORTHING:
EASTING:

BORING: BG001-TB01
G.S. ELEV.:
CASING ELEV.: N/A
START DATE: 11/21/97
FINISH DATE: 11/21/97

DEPTH	S.S. SAMPLE	RECOVERY (percent)	BLOW COUNT (per 6 in.)	HNu Reading (ppm)	ANALYTICAL SAMPLE ID	MATERIAL DESCRIPTION	SYMBOL	REMARKS	DEPTH
0			2		BG001TB01-0001	Red-brown, silty CLAY with organic matter, gray mottles, moist (CL)			0
1			2						1
			4						
		55	6	0		As above, stiff, damp			
2			6						2
			8						
3			12						3
		55	12	0	BG001TB01-0305	Red-brown, silty CLAY with occ. sandstone fragments, gray mottles, stiff, low plasticity (CL)			
4			8						4
			12						
5			15						5
		75	16	0		As above			
6			9						6
			10		BG001TB01-0608	Yellow-brown, silty SAND with sandstone fragments, damp grading to to wet (SM)			
7			9						7
		75	10	0		As above, wet			
8			8						8
			7						
9			6						9
		75	8	0		Bottom of boring 10 ft			
10									10

NOTES:
1. Depths and Elevations in feet unless otherwise noted
2. USCS Classification based on visual-manual procedures
3. wh-weight of hammer
4. wr-weight of rods
5. ft-bgs-feet below ground surface
6. ft-msl-feet above mean sea level

APPENDIX D

BORING LOGS